

XSEP540D Driver Manual

Schneider Electric MICOM P540D Family Courier Protocol Driver

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XSEP540D technical specifications

General information

XSEP540D driver was designed to communicate with Schneider Electric MICOM P540D family of addressable relays that support the Courier protocol.

The MiCOM P540D family covers the following: P443, P445, P446, P543, P544, P545, P546, P547 and P841 Areva TD Range of Relays

When communicating using 10 data bits mode, you must setup the driver to work with the following serial settings: N,8,1.

When communicating using 11 data bits mode, you must setup the driver to work with the following serial settings: E,8,1.

Command list

Generic Courier Commands

Abort Setting

Description of this command:

Requests the slave device to abandon a setting change operation. The purpose of this command is recover the relay from an uncompleted setting change operation in case of a communication error, after which the relay could remain in setting change mode, thus no longer receiving new setting change commands.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

1

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Enter Calibration Mode

Description of this command:

Puts the relay into calibration mode so it may be calibrated.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

4

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP6 parameter:

6-character password.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Enter Configuration Mode

Description of this command:

Puts the relay into configuration mode so it may be configured.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

5

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP6 parameter:

6-character password.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Enter Password

Description of this command:

Sets an ASCII password in a cell of type text. Use this command to enter the password in order to enable the writing of password-protected cells, as it is the case of setting the Record Number cell when reading Fault Records.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Meaning of the DriverP2 parameter:

Indicates the cell row number (0-255), typically 2.

Meaning of the DriverP3 parameter:

Indicates the cell col number (0-255), typically 0.

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates how many Reset Menu Cell commands must be previously sent to the password cell.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

First ASCII password to be sent. If left empty, default is AAAA.

Meaning of the DriverP9 parameter:

Second ASCII password to be sent. If first password fails, second password is sent. If left empty, default is ZZZZ.

Values that are sent:

Value in PointValue (0) = This value is ignored since the text to be sent is configured in DriverP9.

Important note:

Password is case sensitive. Password in MICOM devices is typically located in cell 0002 (row=2 of column=0).

If you are entering a password, use the following values for P2 and P3:

- DriverP2 = 2
- DriverP3 = 0

Execute Setting

Description of this command:

Sends an Execute Setting command.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

3

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Exit Calibration Mode

Description of this command:

Takes the device out of calibration mode and the device is reset.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP6 parameter:

6-character password.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Date string in the form 'DD/MM/YYHH:MM:SS'.

Exit Configuration Mode

Description of this command:

Takes the device out of configuration mode and the device is reset.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

7

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP6 parameter:

6-character password.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Date string in the form 'DD/MM/YYHH:MM:SS'.

Get Cell Strings

Description of this command:

Requests the slave device to send a list of strings for a menu cell's data value which are used to make the setting more comprehensible. The number of cell strings may vary depending of the cell being requested. Texts will be returned in the PointText array.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

28

Meaning of the DriverP2 parameter:

Indicates the cell col number (0-255).

Meaning of the DriverP3 parameter:

Indicates the cell row number (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Important note:

The number of cell strings returned will be limited to the amount set in DriverNumPoints. Each PointText will show each received string. Each PointValue will show the length of each received string. If the number of cell strings returned is less than DriverNumPoints, remaining point values will be set to -1 and the corresponding point texts will be left empty.

Values that are returned:

Text in PointText (0) = First string in the cell

Value in PointValue (0) = Length of first string in the cell

- ...

Text in PointText (DriverNumPoints-1) = Length of last string in the cell (see note above)

Value in PointValue (DriverNumPoints-1) = Last string in the cell (see note above)

Get Cell Values

Description of this command:

Requests the slave device to send a list of values (DTL_NUM, DTL_UN, DTL_INT or DTL_BINF) for a menu cell. The number of cell values may vary depending of the cell being requested.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

29

Meaning of the DriverP2 parameter:

Indicates the cell col number (0-255).

Meaning of the DriverP3 parameter:

Indicates the cell row number (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the offset of the first value to be returned. If 0 or empty, the lists starts with the first available value. If 1, the list starts with the second available value, and so on.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Important note:

The number of cell strings returned will be limited to the amount set in DriverNumPoints. Each PointValue will show each received value. If the number of cell strings returned is less than DriverNumPoints, remaining point values will be set to -1.

Values that are returned:

Value in PointValue (0) = First value in the cell

Value in PointValue (1) = Second value in the cell

- ...

Value in PointValue (DriverNumPoints-1) = Last value in the cell

Get Column Headings

Description of this command:

Requests the slave device to send a list of all the column heading cells in its menu along with their text. The number of column headings may vary depending of the current state of the relay's database and whether various passwords and other settings have been entered. It should not be assumed to remain constant between successive readings. Texts will be returned in the PointText array.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

25

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the offset of the first heading to be returned. If 0 or empty, the lists starts with the first available heading. If 1, the list starts with the second available heading, and so on.

Meaning of the DriverP6 parameter:

Indicates how to fill non-existent headings: 0 or empty = Show existing headings only.
1 = Fill non-existent headings with empty texts and -1 values.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Important note:

The number of column numbers and column headings returned will be limited to the amount set in DriverNumPoints. If the number of columns present in the database is less than DriverNumPoints, remaining point values will be set to -1 and the corresponding point texts will be left empty.

Values that are returned:

Value in PointValue (0) = Number of first column in the database

Text in PointText (0) = Heading of first column in the database

- ...

Value in PointValue (DriverNumPoints-1) = Number of last column in the database (see note above)

Text in PointText (DriverNumPoints-1) = Heading of last column in the database (see note above)

Get Column Text

Description of this command:

Requests the slave device to send a list of the text for all the cells in a specified column in the database. First cell will be the column heading. When used in combination with Get Column Values, you should discard the first text received. The number of column cells may vary depending of the current state of the relay's database and whether various passwords and other settings have been entered. It should not be assumed to remain constant between successive readings. Texts will be returned in the PointText array.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

26

Meaning of the DriverP2 parameter:

Indicates the column to be read (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the offset of the first cell to be returned. If 0 or empty, the lists starts with the first available text. If 1, the list starts with the second available text, and so on.

Meaning of the DriverP6 parameter:

Indicates how to fill non-existent cells: 0 or empty = Show existing cells only.

1 = Fill non-existent cells with empty texts and -1 values.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Important note:

The number of cell numbers and cell texts returned will be limited to the amount set in DriverNumPoints. If the number of cells present in the database is less than DriverNumPoints, remaining point values will be set to -1 and the corresponding point texts are left empty.

Values that are returned:

Value in PointValue (0) = Number of first cell in the specified column of the database

Text in PointText (0) = Heading of first column in the specified column of the database

- ...

Value in PointValue (DriverNumPoints-1) = Number of last cell in the specified column of the database (see note above)

Text in PointText (DriverNumPoints-1) = Heading of last cell in the specified column of the database (see note above)

Get Column Values

Description of this command:

Requests the slave device to send a list of the values for all the cells in a specified column in the database. Column heading has no value associated, so the number of values returned will be one

less than the number of values returned by the Get Column Text command for the same column. The number of column cells may vary depending of the current state of the relay's database and whether various passwords and other settings have been entered. It should not be assumed to remain constant between successive readings. Values will be returned in the PointValue array, except when they need to be returned as texts (dates and flags). In this case, they will be returned in the PointText array, and the PointValue will be set to -1. This command can be used in combination with the Get Column Text command.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

27

Meaning of the DriverP2 parameter:

Indicates the column to be read (0-255).

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the offset of the first cell to be returned. If 0 or empty, the lists starts with the first available value. If 1, the list starts with the second available value, and so on.

Meaning of the DriverP6 parameter:

Indicates how to fill non-existent cells: 0 or empty = Show existing cells only.

1 = Fill non-existent cells with empty texts and -1 values.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

If not empty, indicates a cell row where a value must be written as byte before the column is read (used to select a fault record for example).

Meaning of the DriverP9 parameter:

If not empty, indicates the value (0-255) to be written to the cell whose column is DriverP2 and whose row is DriverP8.

Important note:

The number of cell values returned will be limited to the amount set in DriverNumPoints. If the number of cells present in the database is less than DriverNumPoints, remaining point values will be set to -1 and the corresponding point texts will be left empty. Cells of type text will be returned in the PointText array.

Values that are returned:

Value in PointValue (0) = Value of first cell in the specified column of the database. It is returned as -1 if value cannot be converted to a number.

Text in PointText (0) = Value as text for the same cell. It is returned as empty if value cannot be converted to a text.

- ...

Value in PointValue (DriverNumPoints-1) = Value of last cell in the specified column of the database. It is returned as -1 if value cannot be converted to a number.

Text in PointText (DriverNumPoints-1) = Value as text for the same cell. It is returned as empty if value cannot be converted to a text.

Get Disturbance Record

Description of this command:

Requests the slave device to send the disturbance record that correspond to selected record number. Requires a valid driver license. Format of output files is COMTRADE ASCII. Both .cfg and .dat are generated according to IEEE Standard Common Format for Transient Data Exchange

(COMTRADE) for Power Systems (IEEE Std C37.111-1991). Additional .hdr and .inf files are generated, and can include user-supplied information through the DriverP8 parameter. This command may require to previously send an Enter Password command.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

35

Meaning of the DriverP2 parameter:

Indicates the Record Number to be read (-255 to 255, 997, 998, 999, 1998, 1999, 2998 or 2999). For manual extraction, set the record number to a value between -255 and 255. If a record number cannot be selected (out of range), the following error will be returned: '[8362] CONFIG (Remote): Verify error on setting change'. If the relay does not support record selection, the following error will be returned: '[8213] CONFIG (Remote): Menu cell or column has no data'. Use 997, 998 or 999 to automatically check the DIST status flag to see if there is any new disturbance record available.

997 = used if record selection is not supported, so any record currently available is extracted. If DIST flag is 0, no record is downloaded. Record cell is reset after downloading.

998 = used to read the minimum record number available of all those present in the relay recorder memory. If the DIST flag is 0, the command still extracts the newest record. Record cell is not reset after downloading (use with P123 for example).

999 = used to read the maximum record number available of all those present in the relay recorder memory. If the DIST flag is 0, the command still extracts the newest record. Record cell is not reset after downloading. 1998 = same than 998, but record cell is reset one time before downloading. 1999 = same than 999, but record cell is reset one time before downloading. 2998 = same than 998, but record cell is reset one time after downloading. 2999 = same than 999, but record cell is reset one time after downloading. 3998 = same than 2998, but if DIST is 1, the command loops by resetting the record cell up to 50 times with a 3000 ms delay, until the DIST flag is 0 and before looking for the newest record. 3999 = same than 2999, but if DIST is 1, the command loops by resetting the record cell up to 50 times with a 3000 ms delay, until the DIST flag is 0 and before looking for the newest record. If DriverP5 is not 0, the selected record is never reset after the record is successfully downloaded. This command uses a fixed 50 ms delay before each Poll Buffer command is retried

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. For disturbance records, suggested value is a minimum of 10 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Max number of channels to be downloaded. Use 0 to read all channels available.

Meaning of the DriverP6 parameter:

Indicates the path where the COMTRADE files will be generated. If this property is empty, the local driver folder is used by default.

Meaning of the DriverP7 parameter:

Indicates a TriggerTime that should not be downloaded if it happens to be the last TriggerTime available in the relay. If empty, the last TriggerTime available is downloaded. Format must be 'YYYY-MM-DD hh:mm:ss.uuuuuu000', where uuuuuu=microseconds.

Meaning of the DriverP8 parameter:

Comma-separated list with additional information about the relay to be used in the .hdr and .inf files. Format: FieldName1=value1,FieldName2=value2,etc. Example:

ID=123456,SerialNumber=A55GH77,Port=Ethernet

Meaning of the DriverP9 parameter:

Filename root for .hdr, .cfg, .dat and .inf files. If empty, 'XSEP540D_DisturbanceRecord.Relayxxx.hdr', 'XSEP540D_DisturbanceRecord.Relayxxx.cfg', ,

'XSEP540D_DisturbanceRecord.Relayxxx.dat' and 'XSEP540D_DisturbanceRecord.Relayxxx.inf' will be used, where xxx is the device unit address. Existing files with same name are overwritten.

Values that are returned:

Value in PointValue (0) = Number of channels downloaded
Value in PointValue (1) = Selected record number
Value in PointValue (2) = Total number of records available (only if P2=999 was used, else always 0)
Value in PointValue (3) = Number of samples available in selected record
Value in PointValue (6) = First sample (always 0)
Value in PointValue (7) = Trigger point
Value in PointValue (8) = Number of samples
Value in PointValue (9) = Number of analog channels
Value in PointValue (10) = Number of digital channels
Text in PointText (0) = Download status
Text in PointText (1) = Selected record number (text version, can be 'n/a' when record is not available))
Text in PointText (2) = Recorder Status ('Stopped', 'Triggered' or 'Running')
Text in PointText (3) = Recorder Source ('Samples', 'Magnitudes', 'Phases' or 'Magnitudes & Phases')
Text in PointText (4) = Available channels bit mask
Text in PointText (5) = Channel types bit mask
Text in PointText (6) = First sample time
Text in PointText (7) = Trigger time
Text in PointText (8) = Last sample time
Text in PointText (9) = Comma-separated list of analog channel names
Text in PointText (10) = Comma-separated list of digital channel names

Get Disturbance Record List

Description of this command:

Returns a list of all disturbance records available, ordered by trigger time, newest first. Record number is returned in PointValue and trigger time in PointText. If the number of records found is less than the number of points reserved, remaining pointvalues are set to -1 and pointtexts are set to 'n/a'. This command may require to previously send an Enter Password command.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-63

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

34

Meaning of the DriverP2 parameter:

Indicates if the relay record buffer must not be examined:

0 = Explore relay memory and build a record list based on DriverP5 and DriverP6 settings (use with relays that support multiple records in memory).

1 = Do not explore relay memory and return the currently selected record trigger time (use with relays that do not support multiple records in memory).

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Number of Reset Menu Cell commands to be sent to the record number cell until the DIST flag is 0. The purpose of this option is to make hidden disturbance records become visible to the Courier protocol, so they can be shown in the list. Otherwise only those records that have been already reset will be seen in the disturbance records list. If this parameter is 0 or left empty, no reset commands are sent. If this parameter is not 0, use DriverP6 to indicate a delay between each

reset and DIST flag re-check. If the DIST flag becomes 0, no more resets are sent. If DIST remains 1, a total DriverP5 resets are sent. This feature should be only used with relays that turn DIST off after resetting all the pending records. The value in DriverP5 should not be greater than the total number of disturbance records that can be stored in the relay memory.

Meaning of the DriverP6 parameter:

If DriverP5 is not 0 or empty, this parameter indicates a delay in ms to be after the record was reset, and before the DIST flag is re-checked. A minimum of 3000 ms is recommended, in order to allow the relay enough time to update its internal record list and the DIST flag.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Not used.

Meaning of the DriverP9 parameter:

Not used.

Values that are returned:

Value in PointValue (0) = Newest record number

Text in PointText (0) = Trigger time of newest record

- ...

Text in PointText (DriverNumPoints-1) = Oldest record number

Value in PointValue (DriverNumPoints-1) = Trigger time of oldest record

Poll Buffer

Description of this command:

Sends a Poll Buffer command to the relay.

Methods used to run this command:

Analog Input (ReadNumericValues) / Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

11

Meaning of the DriverP2 parameter:

If 1, toggles IECBYTE

Values that are returned:

Value in PointValue (0) = Status Byte

Preload Setting as Text

Description of this command:

Sends a Preload Setting command as a text.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Meaning of the DriverP2 parameter:

Row

Meaning of the DriverP3 parameter:

Col

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP6 parameter:

Text to be preloaded.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

*Read Cells***Description of this command:**

Reads a number of cells of any type and of any device supporting the Courier protocol. The cells read can belong to any column and the list of cells to be read must be indicated in the DriverP8 parameter.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-50

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

If not empty or 0, indicates a cell column where a value must be written as byte before the cells are read (used to select a fault record for example).

Meaning of the DriverP6 parameter:

If not empty, indicates a cell row where a value must be written as byte before the cells are read (used to select a fault record for example).

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Comma-separated list of cells to be read, using the format `ccrr[:p],ccrr[:p],...,ccrr[:p]` where:

- cc = cell column as a 2-digit hexadecimal value (00-FF)

- rr = cell row as a 2-digit hexadecimal value (00-FF)

- p = optional parameter that modifies the data received, where:

- k=divide obtained value by 1000

- M=divide obtained value by 1000000

- G=divide obtained value by 1000000000

- f1 to f32=return 1 to 32 of received flags

- b0 to b31=return bit 0 to 31 of received flags

- @=return as a string from a built-in string list based on the requested cell address and the obtained value

- Example = 020B,0607:M,0830:@

Meaning of the DriverP9 parameter:

If not empty, indicates the value (0-255) to be written to the cell whose column is DriverP5 and whose row is DriverP6.

Values that are returned:

Value in PointValue (0) = Value of first cell requested

Text in PointText (0) = Text of first cell requested

- ...

Value in PointValue (DriverNumPoints-1) = Value of last cell requested

Text in PointText (DriverNumPoints-1) = Text of last cell requested

Read Circuit Breaker and Isolator Status

Description of this command:

- Gives the status of the Trip led, the Alarm led and the Out of Service flag present in the addressed relay.
- Gives the status of Circuit Breakers 1 and 2.
- Gives the status of Isolators 1 to 6.

Methods used to run this command:

Analog Input (ReadNumericValues) / Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

10

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Values that are returned:

- Value in PointValue (0) = The current Trip Led Status (0 or 1)
- Value in PointValue (1) = The current Alarm Led Status (0 or 1)
- Value in PointValue (2) = The current Out of Service Status (0 or 1)
- Value in PointValue (3) = Status of Circuit Breaker 1 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (4) = Status of Circuit Breaker 2 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (5) = Status of Isolator 1 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (6) = Status of Isolator 2 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (7) = Status of Isolator 3 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (8) = Status of Isolator 4 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (9) = Status of Isolator 5 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)
- Value in PointValue (10) = Status of Isolator 6 (0=OPEN, 1=CLOSED, -1/2=NOT FITTED)

Read Consecutive Cells

Description of this command:

Reads consecutive cell contents of any type and of any device supporting the Courier protocol. All the cells read will belong to the same column and the number of cells to be read must be indicated in the DriverP8 parameter.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

20

Meaning of the DriverP2 parameter:

Indicates the column to be read (0-255).

Meaning of the DriverP3 parameter:

Indicates the first row to be read (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the format for returned dates:

- 0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
- 1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Number of consecutive cells to be read (1-63). If left empty, it is assumed as 1 (read one cell).

Important note:

The number of cells to be read is taken from DriverP8 instead of from DriverNumPoints. This allows you to read cells that can return more than one value, as it is the case of cells of "flags" and "date" type. Flags can return 8, 16 or 32 bit values. Date blocks will return 9 consecutive values with year, month, day, hour, minutes, seconds, milliseconds, day of week and summertime (0 or 1). First returned text will be the date in English format. Second returned text will be the date in Spanish format. Cells containing unsupported value types (such as strings, for example), will take only one PointValue and will return a value of -1.

Values that are returned:

- Value in PointValue (0) = Status Byte DIST Bit
- Value in PointValue (1) = Status Byte PLANT Bit
- Value in PointValue (2) = Status Byte CONTROL Bit
- Value in PointValue (3) = Status Byte BUSY Bit
- Value in PointValue (4) = Status Byte OOS Bit
- Value in PointValue (5) = Status Byte EVENT Bit
- Value in PointValue (6) = Status Byte ALARM Bit
- Value in PointValue (7) = Status Byte TRIP Bit
- Value in PointValue (8) = Value of first cell requested
- ...
- Value in PointValue (DriverNumPoints-1) = Value of last cell requested

Read Events

Description of this command:

Requests the slave device to send the events stored in its internal buffer. Some devices can make events available again by sending a Reset Event Records command.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-2

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

30

Meaning of the DriverP2 parameter:

This command combines five different flags of the form xxxxx that modify the command behaviour. The first flag indicates if an Accept Event command must not be sent after reading the event. The Accept Event command erases the event from the device internal buffer memory. Valid settings for first flag are: xxxx0 = Do not send Accept Event command. Only one event can be read. Event is kept in device memory and can be re-read. xxxx1 = Send Accept Event command after reading each event (event is erased from device memory). The second flag indicates that when some events have been actually extracted, the driver must return OK, even if some communication error has occurred. The purpose of this flag is to assure that the application calling the driver will not ignore the information returned by the driver, when it actually contains some new relay events. Typically when a driver returns an error code, all the information obtained during the command execution is lost. Valid settings for second flag are: xxx0x = When a driver returns an error, always return the driver error to the application, even if some events were extracted. xxx1x = When a driver returns an error, return the driver error only if no events were extracted. If at least one event was extracted and a driver error occurred (such as a timeout), the actual error message will be returned in PointText(1). The third flag indicates if additional information must be included in the event records. Valid settings for third flag are: xx0xx = Do not include additional information xx1xx = Include two more fields with record type (0=standard, 1=short, 2=long, 3=complex) and menu location. If this parameter is left empty, all flags are assumed as 0. The fourth flag indicates that the event extraction must be stopped at the first event whose type is not 0 (Standard Event

Record). This allows to study events with complex structure. Valid settings for fourth flag are: x0xxx = Download all event types (0=Standard Event Record, 1=Short Fault Event Record, 2=Long Fault Event Record and 3=Complex Fault Event Record). x1xxx = Stop immediately when received event type is other than 1, 2 or 3. Accept Event command is not sent. Valid settings for fifth flag are: 0xxxx = Skip unsupported event types (other than 0, 1, 2 or 3) and continue downloading the remaining events. 1xxxx = Try to decode unsupported event types as events of type 0. If this parameter is left empty, all flags are assumed as 0.

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. When reading events, suggested value is a minimum of 5 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the maximum number of events to be read. Use 0 to read all events available. If DriverP2 first flag is xx0, only one event is read.

Meaning of the DriverP6 parameter:

Indicates the path where the event file will be generated. If this property is empty, the local driver folder is used by default.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Indicates the cell row for the fault record selection. This row number is used to obtain fault record information associated to the event. The value is typically 1, for most relays. If left empty, 1 is assumed.

Meaning of the DriverP9 parameter:

Filename for event file. If empty, 'XSEP540D_Events.Relayxxx.txt' will be used, where xxx is the device unit address given in DriverP0.

Values that are returned:

Value in PointValue (0) = Indicates how many events have been extracted.

Text in PointText (0) = Description of last event extracted (empty if no events extracted).

Value in PointValue (1) = 1 if extraction was successful. 0 if there was an error during extraction.

Text in PointText (1) = Status message. Can be OK or can be the last driver error message.

Read Logic Control Inputs Status

Description of this command:

Gives the status of the logic control inputs.

Methods used to run this command:

Analog Input (ReadNumericValues) / Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

1

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Values that are returned:

Value in PointValue (0) = Status of logic control input #0
Value in PointValue (1) = Status of logic control input #1
Value in PointValue (2) = Status of logic control input #2
Value in PointValue (3) = Status of logic control input #3
Value in PointValue (4) = Status of logic control input #4
Value in PointValue (5) = Status of logic control input #5
Value in PointValue (6) = Status of logic control input #6
Value in PointValue (7) = Status of logic control input #7

Read Output Status

Description of this command:

Gives the status of the outputs.

Methods used to run this command:

Analog Input (ReadNumericValues) / Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

2

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Values that are returned:

Value in PointValue (0) = Status of output #0
Value in PointValue (1) = Status of output #1
Value in PointValue (2) = Status of output #2
Value in PointValue (3) = Status of output #3
Value in PointValue (4) = Status of output #4
Value in PointValue (5) = Status of output #5
Value in PointValue (6) = Status of output #6
Value in PointValue (7) = Status of output #7

Read Random Cells

Description of this command:

Reads a number of cells of any type and of any device supporting the Courier protocol. The cells read can belong to any column and the list of cells to be read must be indicated in the DriverP8 parameter.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

21

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

List of cells to be read, as a comma-separated list of <column><row> in hexadecimal value.
Example: 0117,0118,0119

Important note:

The number of cells to be read is deducted from DriverP8 instead of from DriverNumPoints. This allows you to read cells that can return more than one value, as it is the case of cells of "flags" and "date" type. Flags can return 8, 16 or 32 bit values. Date blocks will return 9 consecutive values with year, month, day, hour, minutes, seconds, milliseconds, day of week and summertime (0 or 1). First returned text will be the date in English format. Second returned text will be the date in Spanish format. Cells containing unsupported value types (such as strings, for example), will take only one PointValue and will return a value of -1.

Values that are returned:

Value in PointValue (0) = Status Byte DIST Bit
Value in PointValue (1) = Status Byte PLANT Bit
Value in PointValue (2) = Status Byte CONTROL Bit
Value in PointValue (3) = Status Byte BUSY Bit
Value in PointValue (4) = Status Byte OOS Bit
Value in PointValue (5) = Status Byte EVENT Bit
Value in PointValue (6) = Status Byte ALARM Bit
Value in PointValue (7) = Status Byte TRIP Bit
Value in PointValue (8) = Value of first cell requested
- ...
Value in PointValue (DriverNumPoints-1) = Value of last cell requested

Read Real Time

Description of this command:

Reads the current system time from a slave device.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

17

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Values that are returned:

Value in PointValue (0) = Status Byte DIST Bit
Value in PointValue (1) = Status Byte PLANT Bit
Value in PointValue (2) = Status Byte CONTROL Bit
Value in PointValue (3) = Status Byte BUSY Bit
Value in PointValue (4) = Status Byte OOS Bit
Value in PointValue (5) = Status Byte EVENT Bit
Value in PointValue (6) = Status Byte ALARM Bit
Value in PointValue (7) = Status Byte TRIP Bit
Text in PointText (8) = IEC870 Date (ASCII Text)
Value in PointValue (8) = IEC870 Year (2000-2099)
Value in PointValue (9) = IEC870 Month (1-12)
Value in PointValue (10) = IEC870 Day (1-31)
Value in PointValue (11) = IEC870 Hour (0-23)
Value in PointValue (12) = IEC870 Minutes (0-59)
Value in PointValue (13) = IEC870 Seconds (0-59)

Value in PointValue (14) = IEC870 MilliSeconds (0-999)

Value in PointValue (15) = IEC870 Day of Week (1=Monday to 7=Sunday, or 0=unknown)

Value in PointValue (16) = IEC870 Summertime (0=standard time, 1=summer time)

Read Relay Status / Poll Status

Description of this command:

Gives the status of the eight bits returned in the status byte. This command can also create a log file for the OOS flag status.

Methods used to run this command:

Analog Input (ReadNumericValues) / Digital Input (ReadBooleanValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Meaning of the DriverP2 parameter:

Indicates if a OOS log file with debug info must be generated

0 = Do not create a OOS log file

1 = Create a OOS log file

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

If 1, flag names are returned in PointText array.

Meaning of the DriverP6 parameter:

Indicates the path where the OOS log file will be generated. If this property is empty, the local driver folder is used by default.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

User information to be added to the OOS file, to identify the relay. If empty, only the device unit address given in DriverP0 will be used.

Meaning of the DriverP9 parameter:

Filename for OOS log file. If empty, no file is generated. This file can be shared among several relays. Use DriverP8 to distinguish relays.

Values that are returned:

Value in PointValue (0) = Status Byte DIST Bit

Value in PointValue (1) = Status Byte PLANT Bit

Value in PointValue (2) = Status Byte CONTROL Bit

Value in PointValue (3) = Status Byte BUSY Bit

Value in PointValue (4) = Status Byte OOS Bit

Value in PointValue (5) = Status Byte EVENT Bit

Value in PointValue (6) = Status Byte ALARM Bit

Value in PointValue (7) = Status Byte TRIP Bit

Read Single ASCII Text Cell

Description of this command:

Reads an ASCII text in a cell of type text. For Serial Number, use row 8 and col 0, with text len 7. Cell must be of type ASCII Text.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

20

Meaning of the DriverP2 parameter:

Indicates the column to be read (0-255).

Meaning of the DriverP3 parameter:

Indicates the first row to be read (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Number of consecutive cells to be read (1-63). If left empty, it is assumed as 1 (read one cell).

Values that are returned:

Value in PointValue (0) = Status Byte DIST Bit
Value in PointValue (1) = Status Byte PLANT Bit
Value in PointValue (2) = Status Byte CONTROL Bit
Value in PointValue (3) = Status Byte BUSY Bit
Value in PointValue (4) = Status Byte OOS Bit
Value in PointValue (5) = Status Byte EVENT Bit
Value in PointValue (6) = Status Byte ALARM Bit
Value in PointValue (7) = Status Byte TRIP Bit
Value in PointValue (8) = ASCII Text Len
Text in PointText (8) = ASCII Text

Reset Event Records

Description of this command:

Resets cell BF05, making the events previously sent by a device available for transmission again. As a consequence, the event flag in the status word may be set indicating that there are events to be extracted. Not all devices will support this feature. Events may be discarded as soon as they have been accepted by a remote master, in which case this command will have no effect.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Meaning of the DriverP2 parameter:

5

Meaning of the DriverP3 parameter:

191

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Reset Menu Cell

Description of this command:

Requests the slave device to reset the contents of a specified cell. The purpose of this command is to emulate the action of pressing the RESET key on the front of the slave device while a particular menu cell is visible. The result of this action is therefore cell specific.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Meaning of the DriverP2 parameter:

Indicates the row of the cell to be reset (0-255).

Meaning of the DriverP3 parameter:

Indicates the column of the cell to be reset (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Reset Remote Link

Description of this command:

Resets the communications in a slave device. This command must be sent to IEC870 based slave devices before they will respond.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

20

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Reset Trip Indication

Description of this command:

Resets the trip indication on the slave device.

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

30

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of

3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Set Cell Value as Byte

Description of this command:

Sets the value of any 16-bit unsigned cell, limited to 0 to 255.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

5

Meaning of the DriverP2 parameter:

Indicates the cell row number (0-255).

Meaning of the DriverP3 parameter:

Indicates the cell col number (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP9 parameter:

Value to be sent (0-255).

Values that are sent:

Value in PointValue (0) = This value is ignored since the text to be sent is configured in DriverP9.

Set Cell Value as Signed Integer

Description of this command:

Sets the value of any 16-bit signed cell.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP2 parameter:

Indicates the cell row number (0-255).

Meaning of the DriverP3 parameter:

Indicates the cell col number (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP9 parameter:

Value to be sent (-32768 to 32767).

Values that are sent:

Value in PointValue (0) = This value is ignored since the text to be sent is configured in DriverP9.

*Set Cell Value as String***Description of this command:**

Sets an ASCII text in a cell of type text.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

1

Meaning of the DriverP2 parameter:

Indicates the cell row number (0-255).

Meaning of the DriverP3 parameter:

Indicates the cell col number (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP9 parameter:

ASCII text to be sent.

Values that are sent:

Value in PointValue (0) = This value is ignored since the text to be sent is configured in DriverP9.

*Set Cell Value as Unsigned Integer***Description of this command:**

Sets the value of any 16-bit unsigned cell.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

0

Meaning of the DriverP2 parameter:

Indicates the cell row number (0-255).

Meaning of the DriverP3 parameter:

Indicates the cell col number (0-255).

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP9 parameter:

Value to be sent (0-65535).

Values that are sent:

Value in PointValue (0) = This value is ignored since the text to be sent is configured in DriverP9.

Set Circuit Breaker Status

Description of this command:

Closes or trips the circuit breaker of the addressed device. The relays that are actually operated are defined.

Important note:

For this command to work properly with this driver, you must program your relay according to the following:

In the Relay Mask Page:

- RLYCVCLOSE = Input number as stated in DriverP8 (def=6)
- RLYCVTRIP = Input number as stated in DriverP9 (def=7)

In the Input Mask Page:

- INPCVCLOSE = Input number as stated in DriverP8 (def=6)
- INPCVOPEN = Input number as stated in DriverP9 (def=7)

Methods used to run this command:

Digital Output (WriteBooleanValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

10

Meaning of the DriverP2 parameter:

Indicates the values to be sent to the CB Trip/Close cell based on the current PointValue(0) value:

- 1 = Trip / Close Circuit Breaker 1
- 3 = Trip / Close Isolator 1
- 9 = Trip / Close Circuit Breaker 2
- 11 = Trip / Close Isolator 2
- 17 = Trip / Close Circuit Breaker 3
- 19 = Trip / Close Isolator 3
- 25 = Trip / Close Circuit Breaker 4
- 27 = Trip / Close Isolator 4 . . .

Meaning of the DriverP3 parameter:

Indicates how to perform the validation after sending the open/close command:

0 = The relay's reply is taken as the only validation to assume the command was executed properly.

1 = The status of the circuit breaker is checked immediately after sending either an OPEN or CLOSE command by performing a post-reading operation. If the circuit breaker does not match the expected status, the command will be retried indefinitely. Inputs indicated in DriverP8 and DriverP9 are used as the breaker status feedback.

2 = The status of the circuit breaker is checked immediately after sending a CLOSE command by performing a post-reading operation. If the circuit breaker does not match the expected status, the command will be retried indefinitely ONLY if you were trying to CLOSE it. Inputs indicated in DriverP8 and DriverP9 are used as the breaker status feedback.

3 = The status of the circuit breaker is checked immediately after sending an OPEN command by performing a post-reading operation. If the circuit breaker does not match the expected status, the command will be retried indefinitely ONLY if you were trying to OPEN it. Inputs indicated in DriverP8 and DriverP9 are used as the breaker status feedback.

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Indicates the row number where the CB Trip/Close cell is located. If left blank or 0, row 16 (10 hex) is assumed by default.

Meaning of the DriverP6 parameter:

Indicates the col number where the CB Trip/Close cell is located. If left blank, col 0 is assumed by default.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

Opto I/P Status bit number (0-15) where the RLYCVCLOSE/INPCVCLOSE status is received. If left empty, bit number 6 will be assumed (OPTO 7). If set to -1, this input is not checked.

Meaning of the DriverP9 parameter:

Opto I/P Status bit number (0-15) where the RLYCVTRIP/INPCVOPEN status is received. If left empty, bit number 7 will be assumed (OPTO 8). If set to -1, this input is not checked.

Values that are sent:

Value in PointValue (0) = 0 for Trip and P2 value is sent, 1 for Close and P2+1 value is sent.

Set Real Time to a Given Time

Description of this command:

Sends a new time to a slave device for the setting of real time system clocks. The command send a user-defined date and time. This command might not be implemented in slave devices that use the relative millisecond time format for time tagging.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

9

Meaning of the DriverP0 parameter:

Unit Address (0-255). Use 255 for ALL RELAYS broadcast option.

Meaning of the DriverP1 parameter:

3

Meaning of the DriverP2 parameter:

Estimated communication delay when transmitting date and time to the relay, in milliseconds. This delay has to do with the communication link and compensates the elapsed time between the moment the driver transmits the telegram with the PC clock date and time to the relay and the moment the telegram is received and processed by the relay.

Meaning of the DriverP3 parameter:

Indicates how many times this command is sent when using the ALL RELAYS broadcast option. If empty, 4 is assumed.

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Values that are sent:

Value in PointValue (0) = IEC870 Year (2000-2099)

Value in PointValue (1) = IEC870 Month (1-12)

Value in PointValue (2) = IEC870 Day (1-31)

Value in PointValue (3) = IEC870 Hour (0-23)

Value in PointValue (4) = IEC870 Minutes (0-59)

Value in PointValue (5) = IEC870 Seconds (0-59)

Value in PointValue (6) = IEC870 MilliSeconds (0-999)

Value in PointValue (7) = IEC870 Day of Week (1=Monday to 7=Sunday, or 0=unknown)

Value in PointValue (8) = IEC870 Summertime (0=standard time, 1=summer time)

Set Real Time with PC Clock Time

Description of this command:

Sends a new time to a slave device for the setting of real time system clocks. The command send the current PC-clock date and time. This command might not be implemented in slave devices that use the relative millisecond time format for time tagging.

Methods used to run this command:

Analog Output (WriteNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-255). Use 255 for ALL RELAYS broadcast option.

Meaning of the DriverP1 parameter:

4

Meaning of the DriverP2 parameter:

Estimated communication delay when transmitting date and time to the relay, in milliseconds. This delay has to do with the communication link and compensates the elapsed time between the moment the driver transmits the telegram with the PC clock date and time to the relay and the moment the telegram is received and processed by the relay.

Meaning of the DriverP3 parameter:

Indicates how many times this command is sent when using the ALL RELAYS broadcast option. If empty, 4 is assumed.

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Values that are sent:

Value in PointValue (0) = This value is ignored

Synchronize

Description of this command:

Sets a new time in the relay using the PC clock date and time.

This command follows this procedure:

- Sends a Reset Remote Link command.
- Reads the current date and time from the relay.
- Compares the received relay date and time (plus the estimated reading delay indicated in DriverP5) against the current PC clock date and time.
- Based on the allowed time difference given in the P2 parameter, the driver determines if a synchronization is necessary.
- If a synchronization is required, the driver resets the password cell 0002 and sends the Enter Password command to the relay. Up to two passwords can be attempted.
- After sending the password, the driver sends the current PC clock date and time (plus the estimated transmission delay indicated in DriverP6) to the relay.
- After synchronization, reads back the new date and time from the relay.
- Compares the received relay date and time (plus the estimated reading delay indicated in DriverP5) against the current PC clock date and time.
- Based on the allowed time difference given in the P2 parameter, the driver determines if the synchronization was successful or not.
- Returns status or error information about the synchronization result.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

Synchronization mode, that sets the type of driver reaction when a synchronization resulted in the relay clock to be out of the allowed difference:

7 = If not successful, the driver call is considered successful and the unsuccessful situation is reported in PointValue(0) and PointText(0).

8 = If not successful, the driver call is considered as failed and a driver error is returned.

9 = If not successful, a 'Set Real Time' command is sent to all relays (using relay address 255) and after that synchronization is automatically retried, reporting the final situation in PointValue(0) and PointText(0).

Meaning of the DriverP2 parameter:

Allowed difference, in milliseconds.

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

Indicates how many extra Poll Buffer retries should be attempted when the relay is busy, before abandoning the current transaction. Allowed values are 0 to 30. Suggested value is a minimum of 3 times. If a fixed value of 100 is added to this parameter, then a Reset Remote Link command is sent to the relay before any other telegram.

Meaning of the DriverP5 parameter:

Estimated communication delay when reading date and time from the relay, in milliseconds. This delay has to do with the communication link and compensates the elapsed time between the moment the relay transmits the telegram with its date and time and the moment the telegram is received and processed by the driver.

Meaning of the DriverP6 parameter:

Estimated communication delay when transmitting date and time to the relay, in milliseconds. This delay has to do with the communication link and compensates the elapsed time between the moment the driver transmits the telegram with the PC clock date and time to the relay and the moment the telegram is received and processed by the relay.

Meaning of the DriverP7 parameter:

Additional delay in milliseconds before a Poll Buffer command is retried (0-300). If 0 or empty, a delay of 50 is assumed.

Meaning of the DriverP8 parameter:

First and second ASCII password to be sent before synchronizing. If left empty, default is AAAA,ZZZZ.

Meaning of the DriverP9 parameter:

Row and column where the date-time information is located, in 'XXXXh' format. If left empty, default is 0108h.

Values that are returned:

Value in PointValue (0) = 0 if synchronization not needed, 1 if synchronized OK, 2 if error synchronizing.

Value in PointValue (1) = Returns how many retries were done with 'Set Real Time' command sent to all relays.

Value in PointValue (3) = Time difference before synchronization in milliseconds.

Value in PointValue (8) = Time difference after synchronization in milliseconds (also returns previous difference if synchronization was not needed).

Text in PointText (0) = Returned status or error message.

Text in PointText (1) = PC clock date and time obtained when starting communication.

Text in PointText (2) = Relay date and time received when starting communication.

Text in PointText (3) = Relay date and time received when starting communication, corrected with reading delay.

Text in PointText (4) = PC clock date and time obtained before synchronization (empty if synchronization was not needed).

Text in PointText (5) = Actual PC clock date and time used for synchronization, corrected with transmitting delay (empty if synchronization was not needed).

Text in PointText (6) = PC clock date and time obtained after synchronization (empty if synchronization was not needed).

Text in PointText (7) = Relay date and time received after synchronization (previous date and time if synchronization was not needed).

Text in PointText (8) = Relay date and time received after synchronization, corrected with reading delay (previous date and time if synchronization was not needed).

[MICOM P443 Commands]

MICOM P443 Commands

Read Status Group 1

Description of this command:

Requests the driver to Read Status Group 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

000C,000D,0020,0021,0022,0050,0051,0052,0F1B:f18,0F1A:f18

Values that are returned:

Text in PointText (0) = Plant Status

Text in PointText (1) = Control Status

Text in PointText (2) = Opto I/P Status

Text in PointText (3) = Relay O/P Status

Text in PointText (4) = Alarm Status 1 (00.22)

Text in PointText (5) = Alarm Status 1 (00.50)

Text in PointText (6) = Alarm Status 2

Text in PointText (7) = Alarm Status 3

Text in PointText (8) = Green LED Status

Text in PointText (9) = Red LED Status

Read Status Group 2

Description of this command:

Requests the driver to Read Status Group 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0509,1701:f10,0610:f7,0608,1201,0507:f14,0604,0603,0602

Values that are returned:

Text in PointText (0) = IM64 Rx Status

Text in PointText (1) = Fn Key Status

Text in PointText (2) = CB Monitoring

Text in PointText (3) = CB Operate Time

Text in PointText (4) = Ctrl I/P Status

Text in PointText (5) = Channel 1 Status

Text in PointText (6) = CB C Operations

Text in PointText (7) = CB B Operations

Text in PointText (8) = CB A Operations

Read Status Group 3

Description of this command:

Requests the driver to Read Status Group 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0806,0807,0820,0821,0822,0830:@,0832:@,0833:@,00D0,00D1,0F03

Values that are returned:

Text in PointText (0) = Battery Status

Text in PointText (1) = Battery Alarm

Text in PointText (2) = LocalTime Enable

Text in PointText (3) = LocalTime Offset (min)

Text in PointText (4) = DST Enable

Text in PointText (5) = RP1 Time Zone

Text in PointText (6) = DNPOE Time Zone

Text in PointText (7) = Tunnel Time Zone

Text in PointText (8) = Access Level

Text in PointText (9) = Password Control

Text in PointText (10) = Test Port Status

Read Opto I/P Status

Description of this command:

Requests the driver to Read Opto I/P Status.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0F01

Values that are returned:

Text in PointText (0) = Opto I/P Status

Read Opto I/P 1-8

Description of this command:

Requests the driver to Read Opto I/P 1-8.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4A01,0F01:b0,4A02,0F01:b1,4A03,0F01:b2,4A04,0F01:b3,4A05,0F01:b4,4A06,0F01:b5,4A07,0F01:b6,4A08,0F01:b7

Values that are returned:

Text in PointText (0) = Opto Input 01 Label
Text in PointText (1) = Opto Input 01 Status
Text in PointText (2) = Opto Input 02 Label
Text in PointText (3) = Opto Input 02 Status
Text in PointText (4) = Opto Input 03 Label
Text in PointText (5) = Opto Input 03 Status
Text in PointText (6) = Opto Input 04 Label
Text in PointText (7) = Opto Input 04 Status
Text in PointText (8) = Opto Input 05 Label
Text in PointText (9) = Opto Input 05 Status
Text in PointText (10) = Opto Input 06 Label
Text in PointText (11) = Opto Input 06 Status
Text in PointText (12) = Opto Input 07 Label
Text in PointText (13) = Opto Input 07 Status
Text in PointText (14) = Opto Input 08 Label
Text in PointText (15) = Opto Input 08 Status

*Read Opto I/P 9-16***Description of this command:**

Requests the driver to Read Opto I/P 9-16.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4A09,0F01:b8,4A0A,0F01:b9,4A0B,0F01:b10,4A0C,0F01:b11,4A0D,0F01:b12,4A0E,0F01:b13,4A0F,0F01:b14,4A10,0F01:b15

Values that are returned:

Text in PointText (0) = Opto Input 09 Label
Text in PointText (1) = Opto Input 09 Status
Text in PointText (2) = Opto Input 10 Label
Text in PointText (3) = Opto Input 10 Status
Text in PointText (4) = Opto Input 11 Label
Text in PointText (5) = Opto Input 11 Status
Text in PointText (6) = Opto Input 12 Label
Text in PointText (7) = Opto Input 12 Status

Text in PointText (8) = Opto Input 13 Label
Text in PointText (9) = Opto Input 13 Status
Text in PointText (10) = Opto Input 14 Label
Text in PointText (11) = Opto Input 14 Status
Text in PointText (12) = Opto Input 15 Label
Text in PointText (13) = Opto Input 15 Status
Text in PointText (14) = Opto Input 16 Label
Text in PointText (15) = Opto Input 16 Status

Read Opto I/P 17-24

Description of this command:

Requests the driver to Read Opto I/P 17-24.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4A11,0F01:b16,4A12,0F01:b17,4A13,0F01:b18,4A14,0F01:b19,4A15,0F01:b20,4A16,0F01:b21,4A17,0F01:b22,4A18,0F01:b23

Values that are returned:

Text in PointText (0) = Opto Input 17 Label
Text in PointText (1) = Opto Input 17 Status
Text in PointText (2) = Opto Input 18 Label
Text in PointText (3) = Opto Input 18 Status
Text in PointText (4) = Opto Input 19 Label
Text in PointText (5) = Opto Input 19 Status
Text in PointText (6) = Opto Input 20 Label
Text in PointText (7) = Opto Input 20 Status
Text in PointText (8) = Opto Input 21 Label
Text in PointText (9) = Opto Input 21 Status
Text in PointText (10) = Opto Input 22 Label
Text in PointText (11) = Opto Input 22 Status
Text in PointText (12) = Opto Input 23 Label
Text in PointText (13) = Opto Input 23 Status
Text in PointText (14) = Opto Input 24 Label
Text in PointText (15) = Opto Input 24 Status

Read Relay O/P Status

Description of this command:

Requests the driver to Read Relay O/P Status.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0F02

Values that are returned:

Text in PointText (0) = Output O/P Status

Read Relay O/P 1-8

Description of this command:

Requests the driver to Read Relay O/P 1-8.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B01,0F02:b0,4B02,0F02:b1,4B03,0F02:b2,4B04,0F02:b3,4B05,0F02:b4,4B06,0F02:b5,4B07,0F02:b6,4B08,0F02:b7

Values that are returned:

Text in PointText (0) = Output 01 Label

Text in PointText (1) = Output 01 Status

Text in PointText (2) = Output 02 Label

Text in PointText (3) = Output 02 Status

Text in PointText (4) = Output 03 Label

Text in PointText (5) = Output 03 Status

Text in PointText (6) = Output 04 Label

Text in PointText (7) = Output 04 Status

Text in PointText (8) = Output 05 Label

Text in PointText (9) = Output 05 Status

Text in PointText (10) = Output 06 Label

Text in PointText (11) = Output 06 Status

Text in PointText (12) = Output 07 Label

Text in PointText (13) = Output 07 Status

Text in PointText (14) = Output 08 Label

Text in PointText (15) = Output 08 Status

Read Relay O/P 9-16

Description of this command:

Requests the driver to Read Relay O/P 9-16.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B09,0F02:b8,4B0A,0F02:b9,4B0B,0F02:b10,4B0C,0F02:b11,4B0D,0F02:b12,4B0E,0F02:b13,4B0F,0F02:b14,4B10,0F02:b15

Values that are returned:

Text in PointText (0) = Output 09 Label
Text in PointText (1) = Output 09 Status
Text in PointText (2) = Output 10 Label
Text in PointText (3) = Output 10 Status
Text in PointText (4) = Output 11 Label
Text in PointText (5) = Output 11 Status
Text in PointText (6) = Output 12 Label
Text in PointText (7) = Output 12 Status
Text in PointText (8) = Output 13 Label
Text in PointText (9) = Output 13 Status
Text in PointText (10) = Output 14 Label
Text in PointText (11) = Output 14 Status
Text in PointText (12) = Output 15 Label
Text in PointText (13) = Output 15 Status
Text in PointText (14) = Output 16 Label
Text in PointText (15) = Output 16 Status

Read Relay O/P 17-24

Description of this command:

Requests the driver to Read Relay O/P 17-24.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B11,0F02:b16,4B12,0F02:b17,4B13,0F02:b18,4B14,0F02:b19,4B15,0F02:b20,4B16,0F02:b21,4B17,0F02:b22,4B18,0F02:b23

Values that are returned:

Text in PointText (0) = Output 17 Label
Text in PointText (1) = Output 17 Status
Text in PointText (2) = Output 18 Label
Text in PointText (3) = Output 18 Status
Text in PointText (4) = Output 19 Label
Text in PointText (5) = Output 19 Status

Text in PointText (6) = Output 20 Label
Text in PointText (7) = Output 20 Status
Text in PointText (8) = Output 21 Label
Text in PointText (9) = Output 21 Status
Text in PointText (10) = Output 22 Label
Text in PointText (11) = Output 22 Status
Text in PointText (12) = Output 23 Label
Text in PointText (13) = Output 23 Status
Text in PointText (14) = Output 24 Label
Text in PointText (15) = Output 24 Status

Read Relay O/P 25-32

Description of this command:

Requests the driver to Read Relay O/P 25-32.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B19,0F02:b24,4B1A,0F02:b25,4B1B,0F02:b26,4B1C,0F02:b27,4B1D,0F02:b28,4B1E,0F02:b26,
4B1F,0F02:b30,4B20,0F02:b31

Values that are returned:

Text in PointText (0) = Output 25 Label
Text in PointText (1) = Output 25 Status
Text in PointText (2) = Output 26 Label
Text in PointText (3) = Output 26 Status
Text in PointText (4) = Output 27 Label
Text in PointText (5) = Output 27 Status
Text in PointText (6) = Output 28 Label
Text in PointText (7) = Output 28 Status
Text in PointText (8) = Output 29 Label
Text in PointText (9) = Output 29 Status
Text in PointText (10) = Output 30 Label
Text in PointText (11) = Output 30 Status
Text in PointText (12) = Output 31 Label
Text in PointText (13) = Output 31 Status
Text in PointText (14) = Output 32 Label
Text in PointText (15) = Output 32 Status

Read Serial Number

Description of this command:

Requests the driver to Read Serial Number.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0008

Values that are returned:

Text in PointText (0) = Serial Number

Read Identification Data

Description of this command:

Requests the driver to Read Identification Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0001,0003,0004,0005,0006,000A,000B,000E,0010,0011,0009

Values that are returned:

Value in PointValue (0) = Language

Text in PointText (1) = Sys Fn Links

Text in PointText (2) = Description

Text in PointText (3) = Plant Reference

Text in PointText (4) = Model Number

Text in PointText (5) = Comms Level

Text in PointText (6) = Relay Address

Text in PointText (7) = Active Group

Text in PointText (8) = CB Trip/Close

Text in PointText (9) = Software Ref. 1

Text in PointText (10) = Frequency (Hz)

Read Date/Time

Description of this command:

Requests the driver to Read Date/Time.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0801

Values that are returned:

Text in PointText (0) = Date/Time

Read Measurements Group 1

Description of this command:

Requests the driver to Read Measurements Group 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

022D,0229:k,021F,021E:k,0219,0218:k,0228:k,021D,021C:k

Values that are returned:

Text in PointText (0) = Frequency (Hz)

Text in PointText (1) = VCN RMS (kV)

Text in PointText (2) = VCN Phase Angle (Deg)

Text in PointText (3) = VCN Magnitude (kV)

Text in PointText (4) = VCA Phase Angle (Deg)

Text in PointText (5) = VCA Magnitude (kV)

Text in PointText (6) = VBN RMS (kV)

Text in PointText (7) = VBN Phase Angle (Deg)

Text in PointText (8) = VBN Magnitude (kV)

Read Measurements Group 2

Description of this command:

Requests the driver to Read Measurements Group 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0217,0216:k,0227:k,021B,021A:k,0215,0214:k,0249,0248

Values that are returned:

Text in PointText (0) = VBC Phase Angle (Deg)

Text in PointText (1) = VBC Magnitude (kV)

Text in PointText (2) = VAN RMS (kV)

Text in PointText (3) = VAN Phase Angle (Deg)

Text in PointText (4) = VAN Magnitude (kV)

Text in PointText (5) = VAB Phase Angle (Deg)

Text in PointText (6) = VAB Magnitude (kV)

Text in PointText (7) = V2 Phase Angle (Deg)

Text in PointText (8) = V2 Magnitude (V)

Read Measurements Group 3

Description of this command:

Requests the driver to Read Measurements Group 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0247,0246:k,024B,024A,0301,0304,0307,0313:M

Values that are returned:

Text in PointText (0) = V1 Phase Angle (Deg)

Text in PointText (1) = V1 Magnitude (kV)

Text in PointText (2) = V0 Phase Angle (Deg)

Text in PointText (3) = V0 Magnitude (V)

Text in PointText (4) = A Phase Watts (W)

Text in PointText (5) = A Phase VAr (VAr)

Text in PointText (6) = A Phase VA (VA)

Text in PointText (7) = 3Ph WHours Rev (MWh)

Read Measurements Group 4

Description of this command:

Requests the driver to Read Measurements Group 4.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0312:M,031B,0320:M,0316,031C,0317,0315:M,0314:M,0321:M,030E

Values that are returned:

Text in PointText (0) = 3Ph WHours Fwd (MWh)
Text in PointText (1) = 3Ph W Roll Dem (W)
Text in PointText (2) = 3Ph W Peak Dem (MW)
Text in PointText (3) = 3Ph W Fix Demand (W)
Text in PointText (4) = 3Ph VArS RollDem (VAr)
Text in PointText (5) = 3Ph VArS Fix Dem (VAr)
Text in PointText (6) = 3Ph VArHours Rev (MVARh)
Text in PointText (7) = 3Ph VArHours Fwd (MVARh)
Text in PointText (8) = 3Ph VAr Peak Dem (MVAR)
Text in PointText (9) = 3Ph Power Factor

Read Measurements Group 5

Description of this command:

Requests the driver to Read Measurements Group 5.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

030A,030B,030C,022E,022F,0303,0306,0309,0310,0302

Values that are returned:

Text in PointText (0) = 3 Phase Watts (W)
Text in PointText (1) = 3 Phase VArS (VAr)
Text in PointText (2) = 3 Phase VA (VA)
Text in PointText (3) = C/S Voltage Mag (V)
Text in PointText (4) = C/S Voltage Ang (Deg)
Text in PointText (5) = C Phase Watts (W)
Text in PointText (6) = C Phase VArS (VAr)
Text in PointText (7) = C Phase VA (VA)
Text in PointText (8) = BPh Power Factor
Text in PointText (9) = B Phase Watts (W)

Read Measurements Group 6

Description of this command:

Requests the driver to Read Measurements Group 6.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0305,0308,030F,0311,0233,0232,031F,0212,0206,0324

Values that are returned:

Text in PointText (0) = B Phase VArS (VAr)

Text in PointText (1) = B Phase VA (VA)

Text in PointText (2) = APh Power Factor

Text in PointText (3) = CPh Power Factor

Text in PointText (4) = IM Phase Angle (Deg)

Text in PointText (5) = IM Magnitude (A)

Text in PointText (6) = IC Roll Demand (A)

Text in PointText (7) = IC RMS (A)

Text in PointText (8) = IC Phase Angle (Deg)

Text in PointText (9) = IC Peak Demand (A)

Read Measurements Group 7

Description of this command:

Requests the driver to Read Measurements Group 7.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0205,031A,031E,0211,0204,0323,0203,0319,031D,0210

Values that are returned:

Text in PointText (0) = IC Magnitude (A)

Text in PointText (1) = IC Fixed Demand (A)

Text in PointText (2) = IB Roll Demand (A)

Text in PointText (3) = IB RMS (A)

Text in PointText (4) = IB Phase Angle (Deg)

Text in PointText (5) = IB Peak Demand (A)

Text in PointText (6) = IB Magnitude (A)

Text in PointText (7) = IB Fixed Demand (A)

Text in PointText (8) = IA Roll Demand (A)

Text in PointText (9) = IA RMS (A)

Read Measurements Group 8

Description of this command:

Requests the driver to Read Measurements Group 8.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0202,0322,0201,0318,0243,0242,0241,0240

Values that are returned:

Text in PointText (0) = IA Phase Angle (Deg)

Text in PointText (1) = IA Peak Demand (A)

Text in PointText (2) = IA Magnitude (A)

Text in PointText (3) = IA Fixed Demand (A)

Text in PointText (4) = I2 Phase Angle (Deg)

Text in PointText (5) = I2 Magnitude (A)

Text in PointText (6) = I1 Phase Angle (Deg)

Text in PointText (7) = I1 Magnitude (A)

Read Measurements Group 9

Description of this command:

Requests the driver to Read Measurements Group 9.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0245,0244,0209,020A,020C,020B,0607:M,0606:M,0605:M

Values that are returned:

Text in PointText (0) = I0 Phase Angle (Deg)

Text in PointText (1) = I0 Magnitude (A)

Text in PointText (2) = IN Derived Mag (A)

Text in PointText (3) = IN Derived Angle (Deg)

Text in PointText (4) = ISEF Angle (Deg)

Text in PointText (5) = ISEF Magnitude (A)

Text in PointText (6) = Total IC Broken (MA)

Text in PointText (7) = Total IB Broken (MA)

Text in PointText (8) = Total IA Broken (MA)

Read Fault Record 0 Data

Description of this command:

Requests the driver to Read Fault Record 0 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 Select Fault

Text in PointText (1) = Fault 0 Faulted Phase

Text in PointText (2) = Fault 0 Start Elements 1

Text in PointText (3) = Fault 0 Start Elements 2

Text in PointText (4) = Fault 0 Trip Elements(1)

Text in PointText (5) = Fault 0 Trip Elements(2)

Text in PointText (6) = Fault 0 Fault Alarms

Text in PointText (7) = Fault 0 Fault Time

Text in PointText (8) = Fault 0 Active Group

Text in PointText (9) = Fault 0 System Frequency (Hz)

Text in PointText (10) = Fault 0 Fault Duration (seg)

Text in PointText (11) = Fault 0 CB Operate Time (seg)

Text in PointText (12) = Fault 0 Relay Trip Time (seg)

Text in PointText (13) = Fault 0 Fault Location (m)

Text in PointText (14) = Fault 0 Start Elements 3

Text in PointText (15) = Fault 0 Trip Elements(3)

Read Fault Record 0 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 0 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 IA Pre Flt (A)
Text in PointText (1) = Fault 0 IA Angle Pre Flt (Deg)
Text in PointText (2) = Fault 0 IB Pre Flt (A)
Text in PointText (3) = Fault 0 IB Angle Pre Flt (Deg)
Text in PointText (4) = Fault 0 IC Pre Flt (A)
Text in PointText (5) = Fault 0 IC Angle Pre Flt (Deg)
Text in PointText (6) = Fault 0 IN Pre Flt (A)
Text in PointText (7) = Fault 0 IN Angle Pre Flt (Deg)
Text in PointText (8) = Fault 0 IM Pre Flt (A)
Text in PointText (9) = Fault 0 IM Angle Pre Flt (Deg)
Text in PointText (10) = Fault 0 VA Pre Flt (V)
Text in PointText (11) = Fault 0 VA Angle Pre Flt (Deg)
Text in PointText (12) = Fault 0 VB Pre Flt (V)
Text in PointText (13) = Fault 0 VB Angle Pre Flt (Deg)
Text in PointText (14) = Fault 0 VC Pre Flt (V)
Text in PointText (15) = Fault 0 VC Angle Pre Flt (Deg)
Text in PointText (16) = Fault 0 VN Pre Flt (V)
Text in PointText (17) = Fault 0 VN Angle Pre Flt (Deg)
Text in PointText (18) = Fault 0 IA Fault (A)

Read Fault Record 0 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 0 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0141,0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,01F0,01FF

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 IA Angle Fault (Deg)
Text in PointText (1) = Fault 0 IB Fault (A)
Text in PointText (2) = Fault 0 IB Angle Fault (Deg)
Text in PointText (3) = Fault 0 IC Fault (A)
Text in PointText (4) = Fault 0 IC Angle Fault (Deg)
Text in PointText (5) = Fault 0 IN Fault (A)
Text in PointText (6) = Fault 0 IN Angle Fault (Deg)
Text in PointText (7) = Fault 0 IM Fault (A)
Text in PointText (8) = Fault 0 IM Angle Fault (Deg)
Text in PointText (9) = Fault 0 VA Fault (V)
Text in PointText (10) = Fault 0 VA Angle Fault (Deg)
Text in PointText (11) = Fault 0 VB Fault (V)
Text in PointText (12) = Fault 0 VB Angle Fault (Deg)
Text in PointText (13) = Fault 0 VC Fault (V)
Text in PointText (14) = Fault 0 VC Angle Fault (Deg)
Text in PointText (15) = Fault 0 VN Fault (V)
Text in PointText (16) = Fault 0 VN Angle Fault (Deg)
Text in PointText (17) = Fault 0 Select Maint
Text in PointText (18) = Fault 0 Reset Indication

Read Fault Record 1 Data

Description of this command:

Requests the driver to Read Fault Record 1 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 Select Fault
Text in PointText (1) = Fault 1 Faulted Phase
Text in PointText (2) = Fault 1 Start Elements 1
Text in PointText (3) = Fault 1 Start Elements 2
Text in PointText (4) = Fault 1 Trip Elements(1)
Text in PointText (5) = Fault 1 Trip Elements(2)
Text in PointText (6) = Fault 1 Fault Alarms
Text in PointText (7) = Fault 1 Fault Time
Text in PointText (8) = Fault 1 Active Group
Text in PointText (9) = Fault 1 System Frequency (Hz)

Text in PointText (10) = Fault 1 Fault Duration (seg)
Text in PointText (11) = Fault 1 CB Operate Time (seg)
Text in PointText (12) = Fault 1 Relay Trip Time (seg)
Text in PointText (13) = Fault 1 Fault Location (m)
Text in PointText (14) = Fault 1 Start Elements 3
Text in PointText (15) = Fault 1 Trip Elements(3)

Read Fault Record 1 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 1 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 IA Pre Flt (A)
Text in PointText (1) = Fault 1 IA Angle Pre Flt (Deg)
Text in PointText (2) = Fault 1 IB Pre Flt (A)
Text in PointText (3) = Fault 1 IB Angle Pre Flt (Deg)
Text in PointText (4) = Fault 1 IC Pre Flt (A)
Text in PointText (5) = Fault 1 IC Angle Pre Flt (Deg)
Text in PointText (6) = Fault 1 IN Pre Flt (A)
Text in PointText (7) = Fault 1 IN Angle Pre Flt (Deg)
Text in PointText (8) = Fault 1 IM Pre Flt (A)
Text in PointText (9) = Fault 1 IM Angle Pre Flt (Deg)
Text in PointText (10) = Fault 1 VA Pre Flt (V)
Text in PointText (11) = Fault 1 VA Angle Pre Flt (Deg)
Text in PointText (12) = Fault 1 VB Pre Flt (V)
Text in PointText (13) = Fault 1 VB Angle Pre Flt (Deg)
Text in PointText (14) = Fault 1 VC Pre Flt (V)
Text in PointText (15) = Fault 1 VC Angle Pre Flt (Deg)
Text in PointText (16) = Fault 1 VN Pre Flt (V)
Text in PointText (17) = Fault 1 VN Angle Pre Flt (Deg)
Text in PointText (18) = Fault 1 IA Fault (A)

Read Fault Record 1 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 1 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0141,0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,01F0,01FF

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 IA Angle Fault (Deg)

Text in PointText (1) = Fault 1 IB Fault (A)

Text in PointText (2) = Fault 1 IB Angle Fault (Deg)

Text in PointText (3) = Fault 1 IC Fault (A)

Text in PointText (4) = Fault 1 IC Angle Fault (Deg)

Text in PointText (5) = Fault 1 IN Fault (A)

Text in PointText (6) = Fault 1 IN Angle Fault (Deg)

Text in PointText (7) = Fault 1 IM Fault (A)

Text in PointText (8) = Fault 1 IM Angle Fault (Deg)

Text in PointText (9) = Fault 1 VA Fault (V)

Text in PointText (10) = Fault 1 VA Angle Fault (Deg)

Text in PointText (11) = Fault 1 VB Fault (V)

Text in PointText (12) = Fault 1 VB Angle Fault (Deg)

Text in PointText (13) = Fault 1 VC Fault (V)

Text in PointText (14) = Fault 1 VC Angle Fault (Deg)

Text in PointText (15) = Fault 1 VN Fault (V)

Text in PointText (16) = Fault 1 VN Angle Fault (Deg)

Text in PointText (17) = Fault 1 Select Maint

Text in PointText (18) = Fault 1 Reset Indication

Read Fault Record 2 Data

Description of this command:

Requests the driver to Read Fault Record 2 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 Select Fault
Text in PointText (1) = Fault 2 Faulted Phase
Text in PointText (2) = Fault 2 Start Elements 1
Text in PointText (3) = Fault 2 Start Elements 2
Text in PointText (4) = Fault 2 Trip Elements(1)
Text in PointText (5) = Fault 2 Trip Elements(2)
Text in PointText (6) = Fault 2 Fault Alarms
Text in PointText (7) = Fault 2 Fault Time
Text in PointText (8) = Fault 2 Active Group
Text in PointText (9) = Fault 2 System Frequency (Hz)
Text in PointText (10) = Fault 2 Fault Duration (seg)
Text in PointText (11) = Fault 2 CB Operate Time (seg)
Text in PointText (12) = Fault 2 Relay Trip Time (seg)
Text in PointText (13) = Fault 2 Fault Location (m)
Text in PointText (14) = Fault 2 Start Elements 3
Text in PointText (15) = Fault 2 Trip Elements(3)

Read Fault Record 2 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 2 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:
0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,01
37,0140

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 IA Pre Flt (A)
Text in PointText (1) = Fault 2 IA Angle Pre Flt (Deg)
Text in PointText (2) = Fault 2 IB Pre Flt (A)
Text in PointText (3) = Fault 2 IB Angle Pre Flt (Deg)

Text in PointText (4) = Fault 2 IC Pre Flt (A)
Text in PointText (5) = Fault 2 IC Angle Pre Flt (Deg)
Text in PointText (6) = Fault 2 IN Pre Flt (A)
Text in PointText (7) = Fault 2 IN Angle Pre Flt (Deg)
Text in PointText (8) = Fault 2 IM Pre Flt (A)
Text in PointText (9) = Fault 2 IM Angle Pre Flt (Deg)
Text in PointText (10) = Fault 2 VA Pre Flt (V)
Text in PointText (11) = Fault 2 VA Angle Pre Flt (Deg)
Text in PointText (12) = Fault 2 VB Pre Flt (V)
Text in PointText (13) = Fault 2 VB Angle Pre Flt (Deg)
Text in PointText (14) = Fault 2 VC Pre Flt (V)
Text in PointText (15) = Fault 2 VC Angle Pre Flt (Deg)
Text in PointText (16) = Fault 2 VN Pre Flt (V)
Text in PointText (17) = Fault 2 VN Angle Pre Flt (Deg)
Text in PointText (18) = Fault 2 IA Fault (A)

Read Fault Record 2 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 2 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0141,0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,01F0,01FF

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 IA Angle Fault (Deg)
Text in PointText (1) = Fault 2 IB Fault (A)
Text in PointText (2) = Fault 2 IB Angle Fault (Deg)
Text in PointText (3) = Fault 2 IC Fault (A)
Text in PointText (4) = Fault 2 IC Angle Fault (Deg)
Text in PointText (5) = Fault 2 IN Fault (A)
Text in PointText (6) = Fault 2 IN Angle Fault (Deg)
Text in PointText (7) = Fault 2 IM Fault (A)
Text in PointText (8) = Fault 2 IM Angle Fault (Deg)
Text in PointText (9) = Fault 2 VA Fault (V)
Text in PointText (10) = Fault 2 VA Angle Fault (Deg)
Text in PointText (11) = Fault 2 VB Fault (V)
Text in PointText (12) = Fault 2 VB Angle Fault (Deg)
Text in PointText (13) = Fault 2 VC Fault (V)
Text in PointText (14) = Fault 2 VC Angle Fault (Deg)
Text in PointText (15) = Fault 2 VN Fault (V)
Text in PointText (16) = Fault 2 VN Angle Fault (Deg)

Text in PointText (17) = Fault 2 Select Maint
Text in PointText (18) = Fault 2 Reset Indication

Read Fault Record 3 Data

Description of this command:

Requests the driver to Read Fault Record 3 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 Select Fault

Text in PointText (1) = Fault 3 Faulted Phase

Text in PointText (2) = Fault 3 Start Elements 1

Text in PointText (3) = Fault 3 Start Elements 2

Text in PointText (4) = Fault 3 Trip Elements(1)

Text in PointText (5) = Fault 3 Trip Elements(2)

Text in PointText (6) = Fault 3 Fault Alarms

Text in PointText (7) = Fault 3 Fault Time

Text in PointText (8) = Fault 3 Active Group

Text in PointText (9) = Fault 3 System Frequency (Hz)

Text in PointText (10) = Fault 3 Fault Duration (seg)

Text in PointText (11) = Fault 3 CB Operate Time (seg)

Text in PointText (12) = Fault 3 Relay Trip Time (seg)

Text in PointText (13) = Fault 3 Fault Location (m)

Text in PointText (14) = Fault 3 Start Elements 3

Text in PointText (15) = Fault 3 Trip Elements(3)

Read Fault Record 3 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 3 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 IA Pre Flt (A)

Text in PointText (1) = Fault 3 IA Angle Pre Flt (Deg)

Text in PointText (2) = Fault 3 IB Pre Flt (A)

Text in PointText (3) = Fault 3 IB Angle Pre Flt (Deg)

Text in PointText (4) = Fault 3 IC Pre Flt (A)

Text in PointText (5) = Fault 3 IC Angle Pre Flt (Deg)

Text in PointText (6) = Fault 3 IN Pre Flt (A)

Text in PointText (7) = Fault 3 IN Angle Pre Flt (Deg)

Text in PointText (8) = Fault 3 IM Pre Flt (A)

Text in PointText (9) = Fault 3 IM Angle Pre Flt (Deg)

Text in PointText (10) = Fault 3 VA Pre Flt (V)

Text in PointText (11) = Fault 3 VA Angle Pre Flt (Deg)

Text in PointText (12) = Fault 3 VB Pre Flt (V)

Text in PointText (13) = Fault 3 VB Angle Pre Flt (Deg)

Text in PointText (14) = Fault 3 VC Pre Flt (V)

Text in PointText (15) = Fault 3 VC Angle Pre Flt (Deg)

Text in PointText (16) = Fault 3 VN Pre Flt (V)

Text in PointText (17) = Fault 3 VN Angle Pre Flt (Deg)

Text in PointText (18) = Fault 3 IA Fault (A)

Read Fault Record 3 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 3 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0141,0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,01F0,01FF

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 IA Angle Fault (Deg)
Text in PointText (1) = Fault 3 IB Fault (A)
Text in PointText (2) = Fault 3 IB Angle Fault (Deg)
Text in PointText (3) = Fault 3 IC Fault (A)
Text in PointText (4) = Fault 3 IC Angle Fault (Deg)
Text in PointText (5) = Fault 3 IN Fault (A)
Text in PointText (6) = Fault 3 IN Angle Fault (Deg)
Text in PointText (7) = Fault 3 IM Fault (A)
Text in PointText (8) = Fault 3 IM Angle Fault (Deg)
Text in PointText (9) = Fault 3 VA Fault (V)
Text in PointText (10) = Fault 3 VA Angle Fault (Deg)
Text in PointText (11) = Fault 3 VB Fault (V)
Text in PointText (12) = Fault 3 VB Angle Fault (Deg)
Text in PointText (13) = Fault 3 VC Fault (V)
Text in PointText (14) = Fault 3 VC Angle Fault (Deg)
Text in PointText (15) = Fault 3 VN Fault (V)
Text in PointText (16) = Fault 3 VN Angle Fault (Deg)
Text in PointText (17) = Fault 3 Select Maint
Text in PointText (18) = Fault 3 Reset Indication

Read Fault Record 4 Data

Description of this command:

Requests the driver to Read Fault Record 4 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,011A:f3,011C:f3

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 Select Fault
Text in PointText (1) = Fault 4 Faulted Phase
Text in PointText (2) = Fault 4 Start Elements 1
Text in PointText (3) = Fault 4 Start Elements 2
Text in PointText (4) = Fault 4 Trip Elements(1)
Text in PointText (5) = Fault 4 Trip Elements(2)
Text in PointText (6) = Fault 4 Fault Alarms

Text in PointText (7) = Fault 4 Fault Time
Text in PointText (8) = Fault 4 Active Group
Text in PointText (9) = Fault 4 System Frequency (Hz)
Text in PointText (10) = Fault 4 Fault Duration (seg)
Text in PointText (11) = Fault 4 CB Operate Time (seg)
Text in PointText (12) = Fault 4 Relay Trip Time (seg)
Text in PointText (13) = Fault 4 Fault Location (m)
Text in PointText (14) = Fault 4 Start Elements 3
Text in PointText (15) = Fault 4 Trip Elements(3)

Read Fault Record 4 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 4 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 IA Pre Flt (A)

Text in PointText (1) = Fault 4 IA Angle Pre Flt (Deg)

Text in PointText (2) = Fault 4 IB Pre Flt (A)

Text in PointText (3) = Fault 4 IB Angle Pre Flt (Deg)

Text in PointText (4) = Fault 4 IC Pre Flt (A)

Text in PointText (5) = Fault 4 IC Angle Pre Flt (Deg)

Text in PointText (6) = Fault 4 IN Pre Flt (A)

Text in PointText (7) = Fault 4 IN Angle Pre Flt (Deg)

Text in PointText (8) = Fault 4 IM Pre Flt (A)

Text in PointText (9) = Fault 4 IM Angle Pre Flt (Deg)

Text in PointText (10) = Fault 4 VA Pre Flt (V)

Text in PointText (11) = Fault 4 VA Angle Pre Flt (Deg)

Text in PointText (12) = Fault 4 VB Pre Flt (V)

Text in PointText (13) = Fault 4 VB Angle Pre Flt (Deg)

Text in PointText (14) = Fault 4 VC Pre Flt (V)

Text in PointText (15) = Fault 4 VC Angle Pre Flt (Deg)

Text in PointText (16) = Fault 4 VN Pre Flt (V)

Text in PointText (17) = Fault 4 VN Angle Pre Flt (Deg)

Text in PointText (18) = Fault 4 IA Fault (A)

Read Fault Record 4 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 4 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0141,0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,01F0,01FF

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 IA Angle Fault (Deg)

Text in PointText (1) = Fault 4 IB Fault (A)

Text in PointText (2) = Fault 4 IB Angle Fault (Deg)

Text in PointText (3) = Fault 4 IC Fault (A)

Text in PointText (4) = Fault 4 IC Angle Fault (Deg)

Text in PointText (5) = Fault 4 IN Fault (A)

Text in PointText (6) = Fault 4 IN Angle Fault (Deg)

Text in PointText (7) = Fault 4 IM Fault (A)

Text in PointText (8) = Fault 4 IM Angle Fault (Deg)

Text in PointText (9) = Fault 4 VA Fault (V)

Text in PointText (10) = Fault 4 VA Angle Fault (Deg)

Text in PointText (11) = Fault 4 VB Fault (V)

Text in PointText (12) = Fault 4 VB Angle Fault (Deg)

Text in PointText (13) = Fault 4 VC Fault (V)

Text in PointText (14) = Fault 4 VC Angle Fault (Deg)

Text in PointText (15) = Fault 4 VN Fault (V)

Text in PointText (16) = Fault 4 VN Angle Fault (Deg)

Text in PointText (17) = Fault 4 Select Maint

Text in PointText (18) = Fault 4 Reset Indication

[MICOM P545 Commands]

MICOM P545 Commands

Read Status Group 1

Description of this command:

Requests the driver to Read Status Group 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

000C,000D,0020,0021,0022,0050,0051,0052,0F1B:f18,0F1A:f18

Values that are returned:

Text in PointText (0) = Plant Status

Text in PointText (1) = Control Status

Text in PointText (2) = Opto I/P Status

Text in PointText (3) = Relay O/P Status

Text in PointText (4) = Alarm Status 1 (00.22)

Text in PointText (5) = Alarm Status 1 (00.50)

Text in PointText (6) = Alarm Status 2

Text in PointText (7) = Alarm Status 3

Text in PointText (8) = Green LED Status

Text in PointText (9) = Red LED Status

Read Status Group 2

Description of this command:

Requests the driver to Read Status Group 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0509,1701:f10,0610:f7,0512,1201,0507:f14,0508:f14,0604,0603,0602

Values that are returned:

Text in PointText (0) = IM64 Rx Status

Text in PointText (1) = Fn Key Status

Text in PointText (2) = CB Monitoring

Text in PointText (3) = Elapsed Time

Text in PointText (4) = Ctrl I/P Status

Text in PointText (5) = Channel 1 Status

Text in PointText (6) = Channel 2 Status

Text in PointText (7) = CB C Operations

Text in PointText (8) = CB B Operations

Text in PointText (9) = CB A Operations

Read Status Group 3

Description of this command:

Requests the driver to Read Status Group 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0806,0807,0820,0821,0822,0830:@,0832:@,0833:@,00D0,00D1,0F03

Values that are returned:

Text in PointText (0) = Battery Status

Text in PointText (1) = Battery Alarm

Text in PointText (2) = LocalTime Enable

Text in PointText (3) = LocalTime Offset (min)

Text in PointText (4) = DST Enable

Text in PointText (5) = RP1 Time Zone

Text in PointText (6) = DNPOE Time Zone

Text in PointText (7) = Tunnel Time Zone

Text in PointText (8) = Access Level

Text in PointText (9) = Password Control

Text in PointText (10) = Test Port Status

Read Opto I/P Status

Description of this command:

Requests the driver to Read Opto I/P Status.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0F01

Values that are returned:

Text in PointText (0) = Opto I/P Status

Read Opto I/P 1-8

Description of this command:

Requests the driver to Read Opto I/P 1-8.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4A01,0F01:b0,4A02,0F01:b1,4A03,0F01:b2,4A04,0F01:b3,4A05,0F01:b4,4A06,0F01:b5,4A07,0F01:b6,4A08,0F01:b7

Values that are returned:

Text in PointText (0) = Opto Input 01 Label

Text in PointText (1) = Opto Input 01 Status

Text in PointText (2) = Opto Input 02 Label

Text in PointText (3) = Opto Input 02 Status

Text in PointText (4) = Opto Input 03 Label

Text in PointText (5) = Opto Input 03 Status

Text in PointText (6) = Opto Input 04 Label

Text in PointText (7) = Opto Input 04 Status

Text in PointText (8) = Opto Input 05 Label

Text in PointText (9) = Opto Input 05 Status

Text in PointText (10) = Opto Input 06 Label

Text in PointText (11) = Opto Input 06 Status

Text in PointText (12) = Opto Input 07 Label

Text in PointText (13) = Opto Input 07 Status

Text in PointText (14) = Opto Input 08 Label

Text in PointText (15) = Opto Input 08 Status

Read Opto I/P 9-16

Description of this command:

Requests the driver to Read Opto I/P 9-16.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4A09,0F01:b8,4A0A,0F01:b9,4A0B,0F01:b10,4A0C,0F01:b11,4A0D,0F01:b12,4A0E,0F01:b13,4A0F,0F01:b14,4A10,0F01:b15

Values that are returned:

Text in PointText (0) = Opto Input 09 Label

Text in PointText (1) = Opto Input 09 Status

Text in PointText (2) = Opto Input 10 Label

Text in PointText (3) = Opto Input 10 Status

Text in PointText (4) = Opto Input 11 Label
Text in PointText (5) = Opto Input 11 Status
Text in PointText (6) = Opto Input 12 Label
Text in PointText (7) = Opto Input 12 Status
Text in PointText (8) = Opto Input 13 Label
Text in PointText (9) = Opto Input 13 Status
Text in PointText (10) = Opto Input 14 Label
Text in PointText (11) = Opto Input 14 Status
Text in PointText (12) = Opto Input 15 Label
Text in PointText (13) = Opto Input 15 Status
Text in PointText (14) = Opto Input 16 Label
Text in PointText (15) = Opto Input 16 Status

Read Opto I/P 17-24

Description of this command:

Requests the driver to Read Opto I/P 17-24.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4A11,0F01:b16,4A12,0F01:b17,4A13,0F01:b18,4A14,0F01:b19,4A15,0F01:b20,4A16,0F01:b21,4A17,0F01:b22,4A18,0F01:b23

Values that are returned:

Text in PointText (0) = Opto Input 17 Label
Text in PointText (1) = Opto Input 17 Status
Text in PointText (2) = Opto Input 18 Label
Text in PointText (3) = Opto Input 18 Status
Text in PointText (4) = Opto Input 19 Label
Text in PointText (5) = Opto Input 19 Status
Text in PointText (6) = Opto Input 20 Label
Text in PointText (7) = Opto Input 20 Status
Text in PointText (8) = Opto Input 21 Label
Text in PointText (9) = Opto Input 21 Status
Text in PointText (10) = Opto Input 22 Label
Text in PointText (11) = Opto Input 22 Status
Text in PointText (12) = Opto Input 23 Label
Text in PointText (13) = Opto Input 23 Status
Text in PointText (14) = Opto Input 24 Label
Text in PointText (15) = Opto Input 24 Status

Read Relay O/P Status

Description of this command:

Requests the driver to Read Relay O/P Status.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0F02

Values that are returned:

Text in PointText (0) = Output O/P Status

Read Relay O/P 1-8

Description of this command:

Requests the driver to Read Relay O/P 1-8.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B01,0F02:b0,4B02,0F02:b1,4B03,0F02:b2,4B04,0F02:b3,4B05,0F02:b4,4B06,0F02:b5,4B07,0F02:b6,4B08,0F02:b7

Values that are returned:

Text in PointText (0) = Output 01 Label

Text in PointText (1) = Output 01 Status

Text in PointText (2) = Output 02 Label

Text in PointText (3) = Output 02 Status

Text in PointText (4) = Output 03 Label

Text in PointText (5) = Output 03 Status

Text in PointText (6) = Output 04 Label

Text in PointText (7) = Output 04 Status

Text in PointText (8) = Output 05 Label

Text in PointText (9) = Output 05 Status

Text in PointText (10) = Output 06 Label

Text in PointText (11) = Output 06 Status

Text in PointText (12) = Output 07 Label

Text in PointText (13) = Output 07 Status

Text in PointText (14) = Output 08 Label

Text in PointText (15) = Output 08 Status

Read Relay O/P 9-16

Description of this command:

Requests the driver to Read Relay O/P 9-16.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B09,0F02:b8,4B0A,0F02:b9,4B0B,0F02:b10,4B0C,0F02:b11,4B0D,0F02:b12,4B0E,0F02:b13,4B0F,0F02:b14,4B10,0F02:b15

Values that are returned:

Text in PointText (0) = Output 09 Label
Text in PointText (1) = Output 09 Status
Text in PointText (2) = Output 10 Label
Text in PointText (3) = Output 10 Status
Text in PointText (4) = Output 11 Label
Text in PointText (5) = Output 11 Status
Text in PointText (6) = Output 12 Label
Text in PointText (7) = Output 12 Status
Text in PointText (8) = Output 13 Label
Text in PointText (9) = Output 13 Status
Text in PointText (10) = Output 14 Label
Text in PointText (11) = Output 14 Status
Text in PointText (12) = Output 15 Label
Text in PointText (13) = Output 15 Status
Text in PointText (14) = Output 16 Label
Text in PointText (15) = Output 16 Status

Read Relay O/P 17-24

Description of this command:

Requests the driver to Read Relay O/P 17-24.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B11,0F02:b16,4B12,0F02:b17,4B13,0F02:b18,4B14,0F02:b19,4B15,0F02:b20,4B16,0F02:b21,4B17,0F02:b22,4B18,0F02:b23

Values that are returned:

Text in PointText (0) = Output 17 Label
Text in PointText (1) = Output 17 Status

Text in PointText (2) = Output 18 Label
Text in PointText (3) = Output 18 Status
Text in PointText (4) = Output 19 Label
Text in PointText (5) = Output 19 Status
Text in PointText (6) = Output 20 Label
Text in PointText (7) = Output 20 Status
Text in PointText (8) = Output 21 Label
Text in PointText (9) = Output 21 Status
Text in PointText (10) = Output 22 Label
Text in PointText (11) = Output 22 Status
Text in PointText (12) = Output 23 Label
Text in PointText (13) = Output 23 Status
Text in PointText (14) = Output 24 Label
Text in PointText (15) = Output 24 Status

Read Relay O/P 25-32

Description of this command:

Requests the driver to Read Relay O/P 25-32.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

4B19,0F02:b24,4B1A,0F02:b25,4B1B,0F02:b26,4B1C,0F02:b27,4B1D,0F02:b28,4B1E,0F02:b26,

4B1F,0F02:b30,4B20,0F02:b31

Values that are returned:

Text in PointText (0) = Output 25 Label
Text in PointText (1) = Output 25 Status
Text in PointText (2) = Output 26 Label
Text in PointText (3) = Output 26 Status
Text in PointText (4) = Output 27 Label
Text in PointText (5) = Output 27 Status
Text in PointText (6) = Output 28 Label
Text in PointText (7) = Output 28 Status
Text in PointText (8) = Output 29 Label
Text in PointText (9) = Output 29 Status
Text in PointText (10) = Output 30 Label
Text in PointText (11) = Output 30 Status
Text in PointText (12) = Output 31 Label
Text in PointText (13) = Output 31 Status
Text in PointText (14) = Output 32 Label
Text in PointText (15) = Output 32 Status

Read Serial Number

Description of this command:

Requests the driver to Read Serial Number.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0008

Values that are returned:

Text in PointText (0) = Serial Number

Read Identification Data

Description of this command:

Requests the driver to Read Identification Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0001,0003,0004,0005,0006,000A,000B,000E,0010,0011,0009

Values that are returned:

Text in PointText (0) = Language

Value in PointValue (1) = Sys Fn Links

Text in PointText (2) = Description

Text in PointText (3) = Plant Reference

Text in PointText (4) = Model Number

Text in PointText (5) = Comms Level

Text in PointText (6) = Relay Address

Text in PointText (7) = Active Group

Text in PointText (8) = CB Trip/Close

Text in PointText (9) = Software Ref. 1

Value in PointValue (10) = Frequency (Hz)

Read Date/Time

Description of this command:

Requests the driver to Read Date/Time.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0801

Values that are returned:

Text in PointText (0) = Date/Time

Read Measurements Group 1

Description of this command:

Requests the driver to Read Measurements Group 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

022D,0301,0304,0307,0313,0312,031B,0320,0316,031C

Values that are returned:

Text in PointText (0) = Frequency (Hz)

Text in PointText (1) = A Phase Watts (W)

Text in PointText (2) = A Phase VAr (VAr)

Text in PointText (3) = A Phase VA (VA)

Text in PointText (4) = 3Ph WHours Rev (Wh)

Text in PointText (5) = 3Ph WHours Fwd (Wh)

Text in PointText (6) = 3Ph W Roll Dem (W)

Text in PointText (7) = 3Ph W Peak Dem (W)

Text in PointText (8) = 3Ph W Fix Demand (W)

Text in PointText (9) = 3Ph VAr RollDem (VAr)

Read Measurements Group 2

Description of this command:

Requests the driver to Read Measurements Group 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0317,0315,0314,0321,030E,030A,030B,030C,0608,022E

Values that are returned:

Text in PointText (0) = 3Ph VArS Fix Dem (VAr)

Text in PointText (1) = 3Ph VArHours Rev (VArh)

Text in PointText (2) = 3Ph VArHours Fwd (VArh)

Text in PointText (3) = 3Ph VAr Peak Dem (VAr)

Text in PointText (4) = 3Ph Power Factor

Text in PointText (5) = 3 Phase Watts (W)

Text in PointText (6) = 3 Phase VArS (VAr)

Text in PointText (7) = 3 Phase VA (VA)

Text in PointText (8) = CB Operate Time (s)

Text in PointText (9) = C/S Voltage Mag (V)

Read Measurements Group 3

Description of this command:

Requests the driver to Read Measurements Group 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

022F,0303,0306,0309,0310,0302,0305,0308,030F

Values that are returned:

Text in PointText (0) = C/S Voltage Ang (Deg)

Text in PointText (1) = C Phase Watts (W)

Text in PointText (2) = C Phase VArS (VAr)

Text in PointText (3) = C Phase VA (VA)

Text in PointText (4) = BPh Power Factor

Text in PointText (5) = B Phase Watts (W)

Text in PointText (6) = B Phase VArS (VAr)

Text in PointText (7) = B Phase VA (VA)

Text in PointText (8) = APh Power Factor

Read Measurements Group 4

Description of this command:

Requests the driver to Read Measurements Group 4.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0311,0501,0502,0513,0516,0515,0514,0517,051C,0519

Values that are returned:

Text in PointText (0) = CPh Power Factor

Text in PointText (1) = Ch 1 Prop Delay (seg)

Text in PointText (2) = Ch 2 Prop Delay (seg)

Text in PointText (3) = Ch1 No.Vald Mess

Text in PointText (4) = Ch1 No.Sev Err s

Text in PointText (5) = Ch1 No.Errorred s

Text in PointText (6) = Ch1 No.Err Mess

Text in PointText (7) = Ch1 No.Dgraded m

Text in PointText (8) = Ch2 No.Dgraded m

Text in PointText (9) = Ch2 No.Err Mess

Read Measurements Group 5

Description of this command:

Requests the driver to Read Measurements Group 5.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

051A,051B,0518,0233,0232,031F,0212,0206,0324

Values that are returned:

Text in PointText (0) = Ch2 No.Errorred s

Text in PointText (1) = Ch2 No.Sev Err s

Text in PointText (2) = Ch2 No.Vald Mess

Text in PointText (3) = IM Phase Angle (Deg)

Text in PointText (4) = IM Magnitude (A)

Text in PointText (5) = IC Roll Demand (A)

Text in PointText (6) = IC RMS (A)

Text in PointText (7) = IC Phase Angle (Deg)

Text in PointText (8) = IC Peak Demand (A)

Read Measurements Group 6

Description of this command:

Requests the driver to Read Measurements Group 6.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0205,0405,031A,0406,040E,0416,041F,041B,040D,0415

Values that are returned:

Text in PointText (0) = IC Magnitude (A)

Text in PointText (1) = IC local (A)

Text in PointText (2) = IC Fixed Demand (A)

Text in PointText (3) = IC Angle local (Deg)

Text in PointText (4) = IC Ang remote 1 (Deg)

Text in PointText (5) = IC Ang remote 2 (Deg)

Text in PointText (6) = IC Bias (A)

Text in PointText (7) = IC Differential (A)

Text in PointText (8) = IC remote 1 (A)

Text in PointText (9) = IC remote 2 (A)

Read Measurements Group 7

Description of this command:

Requests the driver to Read Measurements Group 7.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

031E,0211,0204,0323,0203,0403,0319,0404,040C,0414

Values that are returned:

Text in PointText (0) = IB Roll Demand (A)

Text in PointText (1) = IB RMS (A)

Text in PointText (2) = IB Phase Angle (Deg)

Text in PointText (3) = IB Peak Demand (A)

Text in PointText (4) = IB Magnitude (A)

Text in PointText (5) = IB local (A)

Text in PointText (6) = IB Fixed Demand (A)

Text in PointText (7) = IB Angle local (Deg)

Text in PointText (8) = IB Ang remote 1 (Deg)

Text in PointText (9) = IB Ang remote 2 (Deg)

Read Measurements Group 8

Description of this command:

Requests the driver to Read Measurements Group 8.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-11

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

041E,041A,040B,0413,031D,0210,0202,0322,0201,0401,0318

Values that are returned:

Text in PointText (0) = IB Bias (A)

Text in PointText (1) = IB Differential (A)

Text in PointText (2) = IB remote 1 (A)

Text in PointText (3) = IB remote 2 (A)

Text in PointText (4) = IA Roll Demand (A)

Text in PointText (5) = IA RMS (A)

Text in PointText (6) = IA Phase Angle (Deg)

Text in PointText (7) = IA Peak Demand (A)

Text in PointText (8) = IA Magnitude (A)

Text in PointText (9) = IA local (A)

Text in PointText (10) = IA Fixed Demand (A)

Read Measurements Group 9

Description of this command:

Requests the driver to Read Measurements Group 9.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0402,040A,0412,041D,0419,0409,0411,0243,0242

Values that are returned:

Text in PointText (0) = IA Angle local (Deg)

Text in PointText (1) = IA Ang remote 1 (Deg)

Text in PointText (2) = IA Ang remote 2 (Deg)

Text in PointText (3) = IA Bias (A)

Text in PointText (4) = IA Differential (A)

Text in PointText (5) = IA remote 1 (A)
Text in PointText (6) = IA remote 2 (A)
Text in PointText (7) = I2 Phase Angle (Deg)
Text in PointText (8) = I2 Magnitude (A)

Read Measurements Group 10

Description of this command:

Requests the driver to Read Measurements Group 10.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0241,0240,0245,0244,020B,020C,0209,020A

Values that are returned:

Text in PointText (0) = I1 Phase Angle (Deg)

Text in PointText (1) = I1 Magnitude (A)

Text in PointText (2) = I0 Phase Angle (Deg)

Text in PointText (3) = I0 Magnitude (A)

Text in PointText (4) = ISEF Magnitude (A)

Text in PointText (5) = ISEF Angle (Deg)

Text in PointText (6) = IN Derived Mag (A)

Text in PointText (7) = IN Derived Angle (Deg)

Read Measurements Group 11

Description of this command:

Requests the driver to Read Measurements Group 11.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-10

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0526,0527,0229,021F,021E,0219,0218,0228,021D,021C

Values that are returned:

Text in PointText (0) = MaxCh1 PropDelay (seg)

Text in PointText (1) = MaxCh2 PropDelay (seg)

Text in PointText (2) = VCN RMS (V)

Text in PointText (3) = VCN Phase Angle (Deg)
Text in PointText (4) = VCN Magnitude (V)
Text in PointText (5) = VCA Phase Angle (Deg)
Text in PointText (6) = VCA Magnitude (V)
Text in PointText (7) = VBN RMS (V)
Text in PointText (8) = VBN Phase Angle (Deg)
Text in PointText (9) = VBN Magnitude (V)

Read Measurements Group 12

Description of this command:

Requests the driver to Read Measurements Group 12.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0217,0216,0227,021B,021A,0215,0214,0249,0248

Values that are returned:

Text in PointText (0) = VBC Phase Angle (Deg)

Text in PointText (1) = VBC Magnitude (V)

Text in PointText (2) = VAN RMS (V)

Text in PointText (3) = VAN Phase Angle (Deg)

Text in PointText (4) = VAN Magnitude (V)

Text in PointText (5) = VAB Phase Angle (Deg)

Text in PointText (6) = VAB Magnitude (V)

Text in PointText (7) = V2 Phase Angle (Deg)

Text in PointText (8) = V2 Magnitude (V)

Read Measurements Group 13

Description of this command:

Requests the driver to Read Measurements Group 13.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-9

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0247,0246,0250,0251,024B,024A,0607,0606,0605

Values that are returned:

Text in PointText (0) = V1 Phase Angle (Deg)
Text in PointText (1) = V1 Magnitude (V)
Text in PointText (2) = V1 Rem Magnitude (V)
Text in PointText (3) = V1 Rem Phase Ang (Deg)
Text in PointText (4) = V0 Phase Angle (Deg)
Text in PointText (5) = V0 Magnitude (V)
Text in PointText (6) = Total IC Broken (A)
Text in PointText (7) = Total IB Broken (A)
Text in PointText (8) = Total IA Broken (A)

Read Fault Record 0 Data

Description of this command:

Requests the driver to Read Fault Record 0 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 Select Fault
Text in PointText (1) = Fault 0 Faulted Phase
Text in PointText (2) = Fault 0 Start Elements 1
Text in PointText (3) = Fault 0 Start Elements 2
Text in PointText (4) = Fault 0 Trip Elements(1)
Text in PointText (5) = Fault 0 Trip Elements(2)
Text in PointText (6) = Fault 0 Fault Alarms
Text in PointText (7) = Fault 0 Fault Time
Text in PointText (8) = Fault 0 Active Group
Text in PointText (9) = Fault 0 System Frequency (Hz)
Text in PointText (10) = Fault 0 Fault Duration (seg)
Text in PointText (11) = Fault 0 CB Operate Time (seg)
Text in PointText (12) = Fault 0 Relay Trip Time (seg)
Text in PointText (13) = Fault 0 Fault Location (m)
Text in PointText (14) = Fault 0 Start Elements 3
Text in PointText (15) = Fault 0 Trip Elements(3)

Read Fault Record 0 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 0 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140,0141

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 IA Pre Flt (A)

Text in PointText (1) = Fault 0 IA Angle Pre Flt (Deg)

Text in PointText (2) = Fault 0 IB Pre Flt (A)

Text in PointText (3) = Fault 0 IB Angle Pre Flt (Deg)

Text in PointText (4) = Fault 0 IC Pre Flt (A)

Text in PointText (5) = Fault 0 IC Angle Pre Flt (Deg)

Text in PointText (6) = Fault 0 IN Pre Flt (A)

Text in PointText (7) = Fault 0 IN Angle Pre Flt (Deg)

Text in PointText (8) = Fault 0 IM Pre Flt (A)

Text in PointText (9) = Fault 0 IM Angle Pre Flt (Deg)

Text in PointText (10) = Fault 0 VA Pre Flt (V)

Text in PointText (11) = Fault 0 VA Angle Pre Flt (Deg)

Text in PointText (12) = Fault 0 VB Pre Flt (V)

Text in PointText (13) = Fault 0 VB Angle Pre Flt (Deg)

Text in PointText (14) = Fault 0 VC Pre Flt (V)

Text in PointText (15) = Fault 0 VC Angle Pre Flt (Deg)

Text in PointText (16) = Fault 0 VN Pre Flt (V)

Text in PointText (17) = Fault 0 VN Angle Pre Flt (Deg)

Text in PointText (18) = Fault 0 IA Fault (A)

Text in PointText (19) = Fault 0 IA Angle Fault (Deg)

Read Fault Record 0 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 0 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,0158,0159,0160

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 IB Fault (A)
Text in PointText (1) = Fault 0 IB Angle Fault (Deg)
Text in PointText (2) = Fault 0 IC Fault (A)
Text in PointText (3) = Fault 0 IC Angle Fault (Deg)
Text in PointText (4) = Fault 0 IN Fault (A)
Text in PointText (5) = Fault 0 IN Angle Fault (Deg)
Text in PointText (6) = Fault 0 IM Fault (A)
Text in PointText (7) = Fault 0 IM Angle Fault (Deg)
Text in PointText (8) = Fault 0 VA Fault (V)
Text in PointText (9) = Fault 0 VA Angle Fault (Deg)
Text in PointText (10) = Fault 0 VB Fault (V)
Text in PointText (11) = Fault 0 VB Angle Fault (Deg)
Text in PointText (12) = Fault 0 VC Fault (V)
Text in PointText (13) = Fault 0 VC Angle Fault (Deg)
Text in PointText (14) = Fault 0 VN Fault (V)
Text in PointText (15) = Fault 0 VN Angle Fault (Deg)
Text in PointText (16) = Fault 0 IA local (A)
Text in PointText (17) = Fault 0 IB local (A)
Text in PointText (18) = Fault 0 IC local (A)

Read Fault Record 0 Measurements 3

Description of this command:

Requests the driver to Read Fault Record 0 Measurements 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:
0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0161,0162,0163,0164,0165,0166,0167,0168,0169,0170,0171,0172,0173,0174,0175,0176,0177,0178,01F0,01FF

Meaning of the DriverP9 parameter:

0

Values that are returned:

Text in PointText (0) = Fault 0 IA remote 1 (A)
Text in PointText (1) = Fault 0 IB remote 1 (A)
Text in PointText (2) = Fault 0 IC remote 1 (A)
Text in PointText (3) = Fault 0 IA remote 2 (A)
Text in PointText (4) = Fault 0 IB remote 2 (A)
Text in PointText (5) = Fault 0 IC remote 2 (A)
Text in PointText (6) = Fault 0 IA Differential (A)
Text in PointText (7) = Fault 0 IB Differential (A)
Text in PointText (8) = Fault 0 IC Differential (A)
Text in PointText (9) = Fault 0 IA Bias (A)
Text in PointText (10) = Fault 0 IB Bias (A)
Text in PointText (11) = Fault 0 IC Bias (A)
Text in PointText (12) = Fault 0 Ch 1 Prop Delay (seg)
Text in PointText (13) = Fault 0 Ch 2 Prop Delay (seg)
Text in PointText (14) = Fault 0 Ch 1 Rx Prop Dly (seg)
Text in PointText (15) = Fault 0 Ch 1 Tx Prop Dly (seg)
Text in PointText (16) = Fault 0 Ch 2 Rx Prop Dly (seg)
Text in PointText (17) = Fault 0 Ch 2 Tx Prop Dly (seg)
Text in PointText (18) = Fault 0 Select Maint
Text in PointText (19) = Fault 0 Reset Indication

Read Fault Record 1 Data

Description of this command:

Requests the driver to Read Fault Record 1 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 Select Fault
Text in PointText (1) = Fault 1 Faulted Phase
Text in PointText (2) = Fault 1 Start Elements 1
Text in PointText (3) = Fault 1 Start Elements 2
Text in PointText (4) = Fault 1 Trip Elements(1)
Text in PointText (5) = Fault 1 Trip Elements(2)
Text in PointText (6) = Fault 1 Fault Alarms
Text in PointText (7) = Fault 1 Fault Time
Text in PointText (8) = Fault 1 Active Group
Text in PointText (9) = Fault 1 System Frequency (Hz)
Text in PointText (10) = Fault 1 Fault Duration (seg)

Text in PointText (11) = Fault 1 CB Operate Time (seg)
Text in PointText (12) = Fault 1 Relay Trip Time (seg)
Text in PointText (13) = Fault 1 Fault Location (m)
Text in PointText (14) = Fault 1 Start Elements 3
Text in PointText (15) = Fault 1 Trip Elements(3)

Read Fault Record 1 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 1 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140,0141

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 IA Pre Flt (A)

Text in PointText (1) = Fault 1 IA Angle Pre Flt (Deg)

Text in PointText (2) = Fault 1 IB Pre Flt (A)

Text in PointText (3) = Fault 1 IB Angle Pre Flt (Deg)

Text in PointText (4) = Fault 1 IC Pre Flt (A)

Text in PointText (5) = Fault 1 IC Angle Pre Flt (Deg)

Text in PointText (6) = Fault 1 IN Pre Flt (A)

Text in PointText (7) = Fault 1 IN Angle Pre Flt (Deg)

Text in PointText (8) = Fault 1 IM Pre Flt (A)

Text in PointText (9) = Fault 1 IM Angle Pre Flt (Deg)

Text in PointText (10) = Fault 1 VA Pre Flt (V)

Text in PointText (11) = Fault 1 VA Angle Pre Flt (Deg)

Text in PointText (12) = Fault 1 VB Pre Flt (V)

Text in PointText (13) = Fault 1 VB Angle Pre Flt (Deg)

Text in PointText (14) = Fault 1 VC Pre Flt (V)

Text in PointText (15) = Fault 1 VC Angle Pre Flt (Deg)

Text in PointText (16) = Fault 1 VN Pre Flt (V)

Text in PointText (17) = Fault 1 VN Angle Pre Flt (Deg)

Text in PointText (18) = Fault 1 IA Fault (A)

Text in PointText (19) = Fault 1 IA Angle Fault (Deg)

Read Fault Record 1 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 1 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,0158,0159,0160

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 IB Fault (A)

Text in PointText (1) = Fault 1 IB Angle Fault (Deg)

Text in PointText (2) = Fault 1 IC Fault (A)

Text in PointText (3) = Fault 1 IC Angle Fault (Deg)

Text in PointText (4) = Fault 1 IN Fault (A)

Text in PointText (5) = Fault 1 IN Angle Fault (Deg)

Text in PointText (6) = Fault 1 IM Fault (A)

Text in PointText (7) = Fault 1 IM Angle Fault (Deg)

Text in PointText (8) = Fault 1 VA Fault (V)

Text in PointText (9) = Fault 1 VA Angle Fault (Deg)

Text in PointText (10) = Fault 1 VB Fault (V)

Text in PointText (11) = Fault 1 VB Angle Fault (Deg)

Text in PointText (12) = Fault 1 VC Fault (V)

Text in PointText (13) = Fault 1 VC Angle Fault (Deg)

Text in PointText (14) = Fault 1 VN Fault (V)

Text in PointText (15) = Fault 1 VN Angle Fault (Deg)

Text in PointText (16) = Fault 1 IA local (A)

Text in PointText (17) = Fault 1 IB local (A)

Text in PointText (18) = Fault 1 IC local (A)

Read Fault Record 1 Measurements 3

Description of this command:

Requests the driver to Read Fault Record 1 Measurements 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0161,0162,0163,0164,0165,0166,0167,0168,0169,0170,0171,0172,0173,0174,0175,0176,0177,0178,01F0,01FF

Meaning of the DriverP9 parameter:

1

Values that are returned:

Text in PointText (0) = Fault 1 IA remote 1 (A)
Text in PointText (1) = Fault 1 IB remote 1 (A)
Text in PointText (2) = Fault 1 IC remote 1 (A)
Text in PointText (3) = Fault 1 IA remote 2 (A)
Text in PointText (4) = Fault 1 IB remote 2 (A)
Text in PointText (5) = Fault 1 IC remote 2 (A)
Text in PointText (6) = Fault 1 IA Differential (A)
Text in PointText (7) = Fault 1 IB Differential (A)
Text in PointText (8) = Fault 1 IC Differential (A)
Text in PointText (9) = Fault 1 IA Bias (A)
Text in PointText (10) = Fault 1 IB Bias (A)
Text in PointText (11) = Fault 1 IC Bias (A)
Text in PointText (12) = Fault 1 Ch 1 Prop Delay (seg)
Text in PointText (13) = Fault 1 Ch 2 Prop Delay (seg)
Text in PointText (14) = Fault 1 Ch 1 Rx Prop Dly (seg)
Text in PointText (15) = Fault 1 Ch 1 Tx Prop Dly (seg)
Text in PointText (16) = Fault 1 Ch 2 Rx Prop Dly (seg)
Text in PointText (17) = Fault 1 Ch 2 Tx Prop Dly (seg)
Text in PointText (18) = Fault 1 Select Maint
Text in PointText (19) = Fault 1 Reset Indication

Read Fault Record 2 Data

Description of this command:

Requests the driver to Read Fault Record 2 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,011A:f3,011C:f3

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 Select Fault
Text in PointText (1) = Fault 2 Faulted Phase
Text in PointText (2) = Fault 2 Start Elements 1
Text in PointText (3) = Fault 2 Start Elements 2
Text in PointText (4) = Fault 2 Trip Elements(1)
Text in PointText (5) = Fault 2 Trip Elements(2)
Text in PointText (6) = Fault 2 Fault Alarms
Text in PointText (7) = Fault 2 Fault Time
Text in PointText (8) = Fault 2 Active Group
Text in PointText (9) = Fault 2 System Frequency (Hz)
Text in PointText (10) = Fault 2 Fault Duration (seg)
Text in PointText (11) = Fault 2 CB Operate Time (seg)
Text in PointText (12) = Fault 2 Relay Trip Time (seg)
Text in PointText (13) = Fault 2 Fault Location (m)
Text in PointText (14) = Fault 2 Start Elements 3
Text in PointText (15) = Fault 2 Trip Elements(3)

Read Fault Record 2 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 2 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140,0141

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 IA Pre Flt (A)
Text in PointText (1) = Fault 2 IA Angle Pre Flt (Deg)
Text in PointText (2) = Fault 2 IB Pre Flt (A)
Text in PointText (3) = Fault 2 IB Angle Pre Flt (Deg)
Text in PointText (4) = Fault 2 IC Pre Flt (A)
Text in PointText (5) = Fault 2 IC Angle Pre Flt (Deg)
Text in PointText (6) = Fault 2 IN Pre Flt (A)
Text in PointText (7) = Fault 2 IN Angle Pre Flt (Deg)
Text in PointText (8) = Fault 2 IM Pre Flt (A)
Text in PointText (9) = Fault 2 IM Angle Pre Flt (Deg)
Text in PointText (10) = Fault 2 VA Pre Flt (V)
Text in PointText (11) = Fault 2 VA Angle Pre Flt (Deg)
Text in PointText (12) = Fault 2 VB Pre Flt (V)
Text in PointText (13) = Fault 2 VB Angle Pre Flt (Deg)
Text in PointText (14) = Fault 2 VC Pre Flt (V)

Text in PointText (15) = Fault 2 VC Angle Pre Flt (Deg)
Text in PointText (16) = Fault 2 VN Pre Flt (V)
Text in PointText (17) = Fault 2 VN Angle Pre Flt (Deg)
Text in PointText (18) = Fault 2 IA Fault (A)
Text in PointText (19) = Fault 2 IA Angle Fault (Deg)

Read Fault Record 2 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 2 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,0158,0159,0160

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 IB Fault (A)
Text in PointText (1) = Fault 2 IB Angle Fault (Deg)
Text in PointText (2) = Fault 2 IC Fault (A)
Text in PointText (3) = Fault 2 IC Angle Fault (Deg)
Text in PointText (4) = Fault 2 IN Fault (A)
Text in PointText (5) = Fault 2 IN Angle Fault (Deg)
Text in PointText (6) = Fault 2 IM Fault (A)
Text in PointText (7) = Fault 2 IM Angle Fault (Deg)
Text in PointText (8) = Fault 2 VA Fault (V)
Text in PointText (9) = Fault 2 VA Angle Fault (Deg)
Text in PointText (10) = Fault 2 VB Fault (V)
Text in PointText (11) = Fault 2 VB Angle Fault (Deg)
Text in PointText (12) = Fault 2 VC Fault (V)
Text in PointText (13) = Fault 2 VC Angle Fault (Deg)
Text in PointText (14) = Fault 2 VN Fault (V)
Text in PointText (15) = Fault 2 VN Angle Fault (Deg)
Text in PointText (16) = Fault 2 IA local (A)
Text in PointText (17) = Fault 2 IB local (A)
Text in PointText (18) = Fault 2 IC local (A)

Read Fault Record 2 Measurements 3

Description of this command:

Requests the driver to Read Fault Record 2 Measurements 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0161,0162,0163,0164,0165,0166,0167,0168,0169,0170,0171,0172,0173,0174,0175,0176,0177,0178,01F0,01FF

Meaning of the DriverP9 parameter:

2

Values that are returned:

Text in PointText (0) = Fault 2 IA remote 1 (A)

Text in PointText (1) = Fault 2 IB remote 1 (A)

Text in PointText (2) = Fault 2 IC remote 1 (A)

Text in PointText (3) = Fault 2 IA remote 2 (A)

Text in PointText (4) = Fault 2 IB remote 2 (A)

Text in PointText (5) = Fault 2 IC remote 2 (A)

Text in PointText (6) = Fault 2 IA Differential (A)

Text in PointText (7) = Fault 2 IB Differential (A)

Text in PointText (8) = Fault 2 IC Differential (A)

Text in PointText (9) = Fault 2 IA Bias (A)

Text in PointText (10) = Fault 2 IB Bias (A)

Text in PointText (11) = Fault 2 IC Bias (A)

Text in PointText (12) = Fault 2 Ch 1 Prop Delay (seg)

Text in PointText (13) = Fault 2 Ch 2 Prop Delay (seg)

Text in PointText (14) = Fault 2 Ch 1 Rx Prop Dly (seg)

Text in PointText (15) = Fault 2 Ch 1 Tx Prop Dly (seg)

Text in PointText (16) = Fault 2 Ch 2 Rx Prop Dly (seg)

Text in PointText (17) = Fault 2 Ch 2 Tx Prop Dly (seg)

Text in PointText (18) = Fault 2 Select Maint

Text in PointText (19) = Fault 2 Reset Indication

Read Fault Record 3 Data

Description of this command:

Requests the driver to Read Fault Record 3 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 Select Fault
Text in PointText (1) = Fault 3 Faulted Phase
Text in PointText (2) = Fault 3 Start Elements 1
Text in PointText (3) = Fault 3 Start Elements 2
Text in PointText (4) = Fault 3 Trip Elements(1)
Text in PointText (5) = Fault 3 Trip Elements(2)
Text in PointText (6) = Fault 3 Fault Alarms
Text in PointText (7) = Fault 3 Fault Time
Text in PointText (8) = Fault 3 Active Group
Text in PointText (9) = Fault 3 System Frequency (Hz)
Text in PointText (10) = Fault 3 Fault Duration (seg)
Text in PointText (11) = Fault 3 CB Operate Time (seg)
Text in PointText (12) = Fault 3 Relay Trip Time (seg)
Text in PointText (13) = Fault 3 Fault Location (m)
Text in PointText (14) = Fault 3 Start Elements 3
Text in PointText (15) = Fault 3 Trip Elements(3)

Read Fault Record 3 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 3 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:
0 = Use English format (MM/DD/YYYY hh:mm:ss.000)
1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,01
37,0140,0141

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 IA Pre Flt (A)
Text in PointText (1) = Fault 3 IA Angle Pre Flt (Deg)
Text in PointText (2) = Fault 3 IB Pre Flt (A)
Text in PointText (3) = Fault 3 IB Angle Pre Flt (Deg)

Text in PointText (4) = Fault 3 IC Pre Flt (A)
Text in PointText (5) = Fault 3 IC Angle Pre Flt (Deg)
Text in PointText (6) = Fault 3 IN Pre Flt (A)
Text in PointText (7) = Fault 3 IN Angle Pre Flt (Deg)
Text in PointText (8) = Fault 3 IM Pre Flt (A)
Text in PointText (9) = Fault 3 IM Angle Pre Flt (Deg)
Text in PointText (10) = Fault 3 VA Pre Flt (V)
Text in PointText (11) = Fault 3 VA Angle Pre Flt (Deg)
Text in PointText (12) = Fault 3 VB Pre Flt (V)
Text in PointText (13) = Fault 3 VB Angle Pre Flt (Deg)
Text in PointText (14) = Fault 3 VC Pre Flt (V)
Text in PointText (15) = Fault 3 VC Angle Pre Flt (Deg)
Text in PointText (16) = Fault 3 VN Pre Flt (V)
Text in PointText (17) = Fault 3 VN Angle Pre Flt (Deg)
Text in PointText (18) = Fault 3 IA Fault (A)
Text in PointText (19) = Fault 3 IA Angle Fault (Deg)

Read Fault Record 3 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 3 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,0158,0159,0160

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 IB Fault (A)
Text in PointText (1) = Fault 3 IB Angle Fault (Deg)
Text in PointText (2) = Fault 3 IC Fault (A)
Text in PointText (3) = Fault 3 IC Angle Fault (Deg)
Text in PointText (4) = Fault 3 IN Fault (A)
Text in PointText (5) = Fault 3 IN Angle Fault (Deg)
Text in PointText (6) = Fault 3 IM Fault (A)
Text in PointText (7) = Fault 3 IM Angle Fault (Deg)
Text in PointText (8) = Fault 3 VA Fault (V)
Text in PointText (9) = Fault 3 VA Angle Fault (Deg)
Text in PointText (10) = Fault 3 VB Fault (V)
Text in PointText (11) = Fault 3 VB Angle Fault (Deg)
Text in PointText (12) = Fault 3 VC Fault (V)
Text in PointText (13) = Fault 3 VC Angle Fault (Deg)
Text in PointText (14) = Fault 3 VN Fault (V)
Text in PointText (15) = Fault 3 VN Angle Fault (Deg)

Text in PointText (16) = Fault 3 IA local (A)
Text in PointText (17) = Fault 3 IB local (A)
Text in PointText (18) = Fault 3 IC local (A)

Read Fault Record 3 Measurements 3

Description of this command:

Requests the driver to Read Fault Record 3 Measurements 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0161,0162,0163,0164,0165,0166,0167,0168,0169,0170,0171,0172,0173,0174,0175,0176,0177,0178,01F0,01FF

Meaning of the DriverP9 parameter:

3

Values that are returned:

Text in PointText (0) = Fault 3 IA remote 1 (A)
Text in PointText (1) = Fault 3 IB remote 1 (A)
Text in PointText (2) = Fault 3 IC remote 1 (A)
Text in PointText (3) = Fault 3 IA remote 2 (A)
Text in PointText (4) = Fault 3 IB remote 2 (A)
Text in PointText (5) = Fault 3 IC remote 2 (A)
Text in PointText (6) = Fault 3 IA Differential (A)
Text in PointText (7) = Fault 3 IB Differential (A)
Text in PointText (8) = Fault 3 IC Differential (A)
Text in PointText (9) = Fault 3 IA Bias (A)
Text in PointText (10) = Fault 3 IB Bias (A)
Text in PointText (11) = Fault 3 IC Bias (A)
Text in PointText (12) = Fault 3 Ch 1 Prop Delay (seg)
Text in PointText (13) = Fault 3 Ch 2 Prop Delay (seg)
Text in PointText (14) = Fault 3 Ch 1 Rx Prop Dly (seg)
Text in PointText (15) = Fault 3 Ch 1 Tx Prop Dly (seg)
Text in PointText (16) = Fault 3 Ch 2 Rx Prop Dly (seg)
Text in PointText (17) = Fault 3 Ch 2 Tx Prop Dly (seg)
Text in PointText (18) = Fault 3 Select Maint
Text in PointText (19) = Fault 3 Reset Indication

Read Fault Record 4 Data

Description of this command:

Requests the driver to Read Fault Record 4 Data.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0106,0107:@,0108:@,0109:@,010A:@,010B:@,010C:@,010D,010E,010F,0110,0111,0112,0113,
011A:f3,011C:f3

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 Select Fault

Text in PointText (1) = Fault 4 Faulted Phase

Text in PointText (2) = Fault 4 Start Elements 1

Text in PointText (3) = Fault 4 Start Elements 2

Text in PointText (4) = Fault 4 Trip Elements(1)

Text in PointText (5) = Fault 4 Trip Elements(2)

Text in PointText (6) = Fault 4 Fault Alarms

Text in PointText (7) = Fault 4 Fault Time

Text in PointText (8) = Fault 4 Active Group

Text in PointText (9) = Fault 4 System Frequency (Hz)

Text in PointText (10) = Fault 4 Fault Duration (seg)

Text in PointText (11) = Fault 4 CB Operate Time (seg)

Text in PointText (12) = Fault 4 Relay Trip Time (seg)

Text in PointText (13) = Fault 4 Fault Location (m)

Text in PointText (14) = Fault 4 Start Elements 3

Text in PointText (15) = Fault 4 Trip Elements(3)

Read Fault Record 4 Measurements 1

Description of this command:

Requests the driver to Read Fault Record 4 Measurements 1.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0120,0121,0122,0123,0124,0125,0126,0127,0128,0129,0130,0131,0132,0133,0134,0135,0136,0137,0140,0141

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 IA Pre Flt (A)
Text in PointText (1) = Fault 4 IA Angle Pre Flt (Deg)
Text in PointText (2) = Fault 4 IB Pre Flt (A)
Text in PointText (3) = Fault 4 IB Angle Pre Flt (Deg)
Text in PointText (4) = Fault 4 IC Pre Flt (A)
Text in PointText (5) = Fault 4 IC Angle Pre Flt (Deg)
Text in PointText (6) = Fault 4 IN Pre Flt (A)
Text in PointText (7) = Fault 4 IN Angle Pre Flt (Deg)
Text in PointText (8) = Fault 4 IM Pre Flt (A)
Text in PointText (9) = Fault 4 IM Angle Pre Flt (Deg)
Text in PointText (10) = Fault 4 VA Pre Flt (V)
Text in PointText (11) = Fault 4 VA Angle Pre Flt (Deg)
Text in PointText (12) = Fault 4 VB Pre Flt (V)
Text in PointText (13) = Fault 4 VB Angle Pre Flt (Deg)
Text in PointText (14) = Fault 4 VC Pre Flt (V)
Text in PointText (15) = Fault 4 VC Angle Pre Flt (Deg)
Text in PointText (16) = Fault 4 VN Pre Flt (V)
Text in PointText (17) = Fault 4 VN Angle Pre Flt (Deg)
Text in PointText (18) = Fault 4 IA Fault (A)
Text in PointText (19) = Fault 4 IA Angle Fault (Deg)

Read Fault Record 4 Measurements 2

Description of this command:

Requests the driver to Read Fault Record 4 Measurements 2.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0142,0143,0144,0145,0146,0147,0148,0149,0150,0151,0152,0153,0154,0155,0156,0157,0158,0159,0160

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 IB Fault (A)
Text in PointText (1) = Fault 4 IB Angle Fault (Deg)
Text in PointText (2) = Fault 4 IC Fault (A)
Text in PointText (3) = Fault 4 IC Angle Fault (Deg)
Text in PointText (4) = Fault 4 IN Fault (A)
Text in PointText (5) = Fault 4 IN Angle Fault (Deg)

Text in PointText (6) = Fault 4 IM Fault (A)
Text in PointText (7) = Fault 4 IM Angle Fault (Deg)
Text in PointText (8) = Fault 4 VA Fault (V)
Text in PointText (9) = Fault 4 VA Angle Fault (Deg)
Text in PointText (10) = Fault 4 VB Fault (V)
Text in PointText (11) = Fault 4 VB Angle Fault (Deg)
Text in PointText (12) = Fault 4 VC Fault (V)
Text in PointText (13) = Fault 4 VC Angle Fault (Deg)
Text in PointText (14) = Fault 4 VN Fault (V)
Text in PointText (15) = Fault 4 VN Angle Fault (Deg)
Text in PointText (16) = Fault 4 IA local (A)
Text in PointText (17) = Fault 4 IB local (A)
Text in PointText (18) = Fault 4 IC local (A)

Read Fault Record 4 Measurements 3

Description of this command:

Requests the driver to Read Fault Record 4 Measurements 3.

Methods used to run this command:

Analog Input (ReadNumericValues)

Number of points accepted by this command:

1-20

Meaning of the DriverP0 parameter:

Unit Address (1-255).

Meaning of the DriverP1 parameter:

22

Meaning of the DriverP3 parameter:

Indicates the format for returned dates:

0 = Use English format (MM/DD/YYYY hh:mm:ss.000)

1 = Use Spanish format (DD/MM/YYYY hh:mm:ss.000)

Meaning of the DriverP4 parameter:

105

Meaning of the DriverP5 parameter:

1

Meaning of the DriverP6 parameter:

6

Meaning of the DriverP7 parameter:

50

Meaning of the DriverP8 parameter:

0161,0162,0163,0164,0165,0166,0167,0168,0169,0170,0171,0172,0173,0174,0175,0176,0177,0178,01F0,01FF

Meaning of the DriverP9 parameter:

4

Values that are returned:

Text in PointText (0) = Fault 4 IA remote 1 (A)
Text in PointText (1) = Fault 4 IB remote 1 (A)
Text in PointText (2) = Fault 4 IC remote 1 (A)
Text in PointText (3) = Fault 4 IA remote 2 (A)
Text in PointText (4) = Fault 4 IB remote 2 (A)
Text in PointText (5) = Fault 4 IC remote 2 (A)
Text in PointText (6) = Fault 4 IA Differential (A)
Text in PointText (7) = Fault 4 IB Differential (A)
Text in PointText (8) = Fault 4 IC Differential (A)
Text in PointText (9) = Fault 4 IA Bias (A)
Text in PointText (10) = Fault 4 IB Bias (A)
Text in PointText (11) = Fault 4 IC Bias (A)
Text in PointText (12) = Fault 4 Ch 1 Prop Delay (seg)
Text in PointText (13) = Fault 4 Ch 2 Prop Delay (seg)
Text in PointText (14) = Fault 4 Ch 1 Rx Prop Dly (seg)
Text in PointText (15) = Fault 4 Ch 1 Tx Prop Dly (seg)
Text in PointText (16) = Fault 4 Ch 2 Rx Prop Dly (seg)
Text in PointText (17) = Fault 4 Ch 2 Tx Prop Dly (seg)
Text in PointText (18) = Fault 4 Select Maint

Text in PointText (19) = Fault 4 Reset Indication

Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

[1005] DRIVER (Internal): Invalid driver stage
[1006] DRIVER (Internal): Error transmitting command
[1008] DRIVER (Internal): Command execution requires a valid license
[1010] DRIVER (Internal): Error calculating elapsed milliseconds
[1201] DRIVER (System): Error closing %s
[1202] DRIVER (System): Error creating %s
[1208] DRIVER (System): Error seeking end of %s
[1210] DRIVER (System): Error writing to %s
[1214] DRIVER (System): Error deleting %s
[1300] PROTOCOL (Timeout): No answer
[1313] PROTOCOL (Timeout): No answer from meter after retrying with a Start Communications message
[1332] PROTOCOL (Remote): Invalid date received
[1333] PROTOCOL (Remote): Couldn't decode received date
[1334] PROTOCOL (Remote): Invalid time received
[1338] PROTOCOL (Remote): Couldn't decode reference date
[1353] DEVICE (Busy): Device still busy after the maximum number of poll buffer attempts
[1354] PROTOCOL (Remote): Unknown event record type
[1355] PROTOCOL (Format): Invalid datatype
[1357] REPLY (Format): Couldn't read column texts and values
[1358] REPLY (Format): Couldn't read cell strings
[1359] REPLY (Format): Couldn't read cell value
[1360] PROTOCOL (Remote): Error synchronizing device
[1361] REPLY (Format): Couldn't read cell values
[1362] PROTOCOL (Remote): Invalid block number sequence received
[1415] PROTOCOL (Format): Invalid response format
[1418] PROTOCOL (Format): Message to be transmitted is too long
[1427] PROTOCOL (Format): Unexpected response
[1428] PROTOCOL (Format): Unknown reply code
[1433] PROTOCOL (Format): Validation error in device response
[1459] PROTOCOL (Format): Date and time information not received
[1467] PROTOCOL (Remote): Unknown date format in received event
[2253] CONFIG (NumValues): Too many values requested (max=34)
[2302] CONFIG (NumValues): Invalid number of values (must be 9)
[2305] CONFIG (List): Address list is empty
[2306] CONFIG (List): Invalid format of address list
[3014] CONFIG (P0): Invalid device address (0-255)
[3022] CONFIG (P0): Invalid device address (1-255)
[3508] CONFIG (P1): Invalid command
[3594] CONFIG (P1): Invalid synchronization mode
[4029] CONFIG (P2): Invalid column (0-255)
[4097] CONFIG (P2): Invalid row number (0 to 255)
[4156] CONFIG (P2): Invalid row number (0-255)
[4519] CONFIG (P3): Invalid column number (0 to 255)
[4565] CONFIG (P3): Invalid row (0-255)
[4582] CONFIG (P3): Invalid validation mode (0-3)
[4600] CONFIG (P3): Invalid column number (0-255)
[5026] CONFIG (P4): Invalid number of retries when busy (0-30)
[5511] CONFIG (P5): Invalid row number (0-255)
[6014] CONFIG (P6): Invalid column number (0 to 255)
[6507] CONFIG (P7): Invalid delay for poll buffer retry (0-300)
[7001] CONFIG (P8): Invalid input number (-1 or 0-15)
[7002] CONFIG (P8): Invalid number of cells requested (max=63)
[7009] CONFIG (P8): List of cells was not defined
[7502] CONFIG (P9): Invalid input number (-1 or 0-15)

[8041] CONFIG (Remote): Cell cannot be read or written at the moment
[8050] CONFIG (Remote): Column should be subsequently re-read
[8056] CONFIG (Remote): Command failed
[8062] CONFIG (Remote): Command not known or not valid at this time
[8074] CONFIG (Remote): Couldn't enter in setting mode
[8075] CONFIG (Remote): Couldn't preload setting buffer
[8076] CONFIG (Remote): Couldn't verify input status
[8094] CONFIG (Remote): Device answer is different than expected
[8116] CONFIG (Remote): Error closing circuit breaker
[8126] CONFIG (Remote): Error opening circuit breaker
[8207] CONFIG (Remote): Setting is currently being changed by another user interface
[8213] CONFIG (Remote): Menu cell or column has no data
[8230] CONFIG (RemoteRemote): Non-specific error
[8262] CONFIG (Remote): Password is required to change setting
[8266] CONFIG (Remote): Positive acknowledgement
[8296] CONFIG (Remote): Remote control disabled or menu cell does not exist
[8335] CONFIG (Remote): This is not a settable/resettable cell or remote control is disabled
[8362] CONFIG (Remote): Invalid password or verify error on setting change
[8399] CONFIG (Remote): Couldn't preload password
[9505] CONFIG (Value): Invalid seconds in PointValue (0-59)
[9507] CONFIG (Value): Invalid year in PointValue (2000-2099)
[9508] CONFIG (Value): Invalid month in PointValue (1-12)
[9509] CONFIG (Value): Invalid day in PointValue (1-31)
[9510] CONFIG (Value): Invalid hour in PointValue (0-23)
[9511] CONFIG (Value): Invalid minutes in PointValue (0-59)
[9512] CONFIG (Value): Invalid milliseconds in PointValue (0-999)
[9513] CONFIG (Value): Invalid day of week in PointValue (0-7)
[9514] CONFIG (Value): Invalid summertime in PointValue (0-1)

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

SCHNEIDER ELECTRIC P443 v0570K
SCHNEIDER ELECTRIC P443 v0570-A
SCHNEIDER ELECTRIC P445 v0370J
SCHNEIDER ELECTRIC P445 v0370-A
SCHNEIDER ELECTRIC P446 v0570K
SCHNEIDER ELECTRIC P446 v0570-A
SCHNEIDER ELECTRIC P543 v0470K
SCHNEIDER ELECTRIC P543 v0470-A
SCHNEIDER ELECTRIC P543 v0570K
SCHNEIDER ELECTRIC P543 v0570-A
SCHNEIDER ELECTRIC P544 v0470K
SCHNEIDER ELECTRIC P544 v0470-A
SCHNEIDER ELECTRIC P544 v0570K
SCHNEIDER ELECTRIC P544 v0570-A
SCHNEIDER ELECTRIC P545 v0470K
SCHNEIDER ELECTRIC P545 v0470-A
SCHNEIDER ELECTRIC P545 v0570K
SCHNEIDER ELECTRIC P545 v0570-A
SCHNEIDER ELECTRIC P546 v0470K
SCHNEIDER ELECTRIC P546 v0470-A
SCHNEIDER ELECTRIC P546 v0570K
SCHNEIDER ELECTRIC P546 v0570-A
SCHNEIDER ELECTRIC P547 v0570K
SCHNEIDER ELECTRIC P547 v0570-A
SCHNEIDER ELECTRIC P841-1 v0470K
SCHNEIDER ELECTRIC P841 v0470-A
SCHNEIDER ELECTRIC P841-3 v0570K
SCHNEIDER ELECTRIC P841 v0570-A