Industrial communication solutions for Windows

XMICRAP Driver Manual

Ditel Micra-P Kosmos Series ISO-1745 Protocol Driver

Contents

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Industrial communication drivers.

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XMICRAP technical specifications

General information

The XMICRAP driver allows you communicate with the MICRA-P Process Control Indicator of the Kosmos Series from Ditel (www.ditel.es) using the ISO-1745 protocol.

RECOMMENDATIONS:

- Refer to the RS6 interface manual available at http://www.ditel.es/manuales/eng/rs6_e.pdf to check the correct connections for your RS-485 link.
- Make sure that the ProC option is set to 2 in your indicator.
- Use an RS-232/485 converter to connect the controller to your PC.
- Make sure that the controller station address, baudrate, parity, databits and stop bits are correctly configured in the driver and matches those used by the meter.
- Set the driver to use 1 start bit, 1 stop bit, even parity and 7 data bits.

If you cannot communicate or if you are using RS-485 to connect to the device, you should set the RTS signal during the communication. This can be done by setting the RTSEnable argument when calling the read and write methods. If you still cannot communicate, check that your RS-485 cables are not inverted.

Command list

Read Display Reading

Description of this command:
Reads the value shown in the indicator display.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
0
Values that are returned:
Value in PointValue (0) = Display value

Read Minimum Reading

Description of this command:
Reads the minimum reading (valley) stored in memory.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
1
Values that are returned:
Value in PointValue (0) = Minimum reading value

Read Maximum Reading

Description of this command:
Reads the maximum reading (peak) stored in memory.
Methods used to run this command:
Analog Input

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Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
2
Values that are returned:
Value in PointValue (0) = Maximum reading value

Read Tare Value

Description of this command:
Reads the tare value (offset in case of thermometers).
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
3
Values that are returned:
Value in PointValue (0) = Tare value

Read Setpoint 1

Description of this command:
Reads the value of setpoint 1.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
4
Values that are returned:
Value in PointValue (0) = Setpoint 1 value

Read Setpoint 2

Description of this command:
Reads the value of setpoint 2.
Methods used to run this command:
Analog Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
5
Values that are returned:
Value in PointValue (0) = Setpoint 2 value

Reset Valley Memory

Description of this command:
Resets the valley memory.
Methods used to run this command:
Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)

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Meaning of the DriverP1 parameter:
0
Values that are sent:
Value in PointValue (0) = Ignored

Reset Peak Memory

Description of this command:
Resets the peak memory.
Methods used to run this command:
Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
1
Values that are sent:
Value in PointValue (0) = Ignored

Reset Tare Memory

Description of this command:
Resets the tare memory.
Methods used to run this command:
Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
2
Values that are sent:
Value in PointValue (0) = Ignored

Tare Display

Description of this command:
Tares the display.
Methods used to run this command:
Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
3
Values that are sent:
Value in PointValue (0) = Ignored

Change Setpoint 1

Description of this command:
Changes setpoint 1 value.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
0
Values that are sent:
Value in PointValue (0) = New setpoint 1 value

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Change Setpoint 2

Description of this command:
Changes setpoint 2 value.
Methods used to run this command:
Analog Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Indicator address (1 to 99)
Meaning of the DriverP1 parameter:
1
Values that are sent:
Value in PointValue (0) = New setpoint 2 value

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
[1300] PROTOCOL (Timeout): No answer
[3029] CONFIG (P0): Invalid device address (1-99)
[3508] CONFIG (P1): Invalid command
[8031] CONFIG (Remote): BCC error
[8217] CONFIG (Remote): NAK-negative acknowledgment
[8404] CONFIG (Remote): No data in reply telegram

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

DITEL MICRA-P KOSMOS SERIES PROCESS CONTROL INDICATOR

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