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XMODBUS Driver Manual

Modbus RTU/JBus Protocol Driver

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XMODBUS technical specifications

General information

XMODBUS driver allows you to connect to any equipment which uses the Gould Modicon MODBUS Binary Protocol, also known as 'MODBUS RTU' (Remote Terminal Unit framing). Also supports the JBUS protocol, which is in fact a subset of the MODBUS RTU protocol. This driver implements Modbus commands 1, 2, 3, 4, 5, 6, 15 and 16 as they are described in the Gould Modicon Modbus Protocol Manual. It also implements some special commands that are not part of the original Modbus specification that bring support for special data formats used by certain devices.

This driver expects that you connect to your device through its serial port. The device should behave as a slave in your RS-232/485 network. This driver supports serial-over-ethernet so you can alternatively use some kind of transparent ethernet/serial converter to reach your device using your LAN.

Command list

Read Coil Status

Description of this command:

Obtains current status (ON/OFF) in a group of logic coils. This command implements Modbus function 1.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

1

Meaning of the DriverP2 parameter:

Indicates the starting coil address.

Values that are returned:

Value in PointValue (0) = First coil status (0=OFF, 1=ON)

Value in PointValue (1) = Second coil status (0=OFF, 1=ON)

...

Value in PointValue (n-1) = Last coil status (0=OFF, 1=ON)

Read Input Status

Description of this command:

Obtains current status (ON/OFF) in a group of discrete inputs. This command implements Modbus function 2.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-1000

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

2

Meaning of the DriverP2 parameter:

Indicates the starting input address.

Values that are returned:

Value in PointValue (0) = First input status (0=OFF, 1=ON)

Value in PointValue (1) = Second input status (0=OFF, 1=ON)

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...
Value in PointValue (n-1) = Last input status (0=OFF, 1=ON)

Read Holding Registers as Unsigned 16-bit Integers

Description of this command:

Obtains the current values in one or more holding registers as unsigned 16-bit integers from 0 to 65535. This command implements Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

3

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value (0-65535)

Value in PointValue (1) = Second register value (0-65535)

...

Value in PointValue (n-1) = Last register value (0-65535)

Read Holding Registers as Signed 16-bit Integers

Description of this command:

Obtains the current values in one or more holding registers as signed 16-bit integers from -32768 to 32767. This command implements Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

74

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value (-32768 to 32767)

Value in PointValue (1) = Second register value (-32768 to 32767)

...

Value in PointValue (n-1) = Last register value (-32768 to 32767)

Read Holding Registers as Unsigned 32-bit Integers

Description of this command:

Obtains the current values in one or more holding registers as unsigned 32-bit integer numbers. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

76

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

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...
Value in PointValue (n-1) = Last register value

Read Holding Registers as Signed 32-bit Integers

Description of this command:

Obtains the current values in one or more holding registers as signed 32-bit integer numbers. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

75

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Holding Registers as Unsigned 32-bit Integers (words reversed)

Description of this command:

Obtains current values in one or more holding registers as unsigned 32-bit integer numbers with words in reverse order. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

86

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Holding Registers as Signed 32-bit Integers (words reversed)

Description of this command:

Obtains current values in one or more holding registers as signed 32-bit integer numbers with words in reverse order. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

85

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

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...
Value in PointValue (n-1) = Last register value

Read Holding Registers as IEEE Floats

Description of this command:

Obtains the current values in one or more holding registers as 32-bit IEEE floating-point values. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

66

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Holding Registers as IEEE Floats (bytes reversed)

Description of this command:

Obtains the current values in one or more holding registers as 32-bit IEEE floating-point values assuming that bytes are received in reverse order. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

68

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Holding Registers as IEEE Floats (words reversed)

Description of this command:

Obtains current values in one or more holding registers as 32-bit IEEE floating point values assuming that the words order is received in reversed order. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

80

Meaning of the DriverP2 parameter:

Indicates the starting memory address.

Values that are returned:

Value in PointValue (0) = First register value

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Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Important note:

This command was added to support the floating-point format used by the TSX-3722 PLC from Telemecanique.

Read Holding Registers as IEEE Doubles

Description of this command:

Obtains the current values in one or more input registers as 64-bit IEEE double values. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-31

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

266

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Important note:

This command was added to support the double format used by Janitza UMG-503 meters.

Read Holding Registers as IEEE Doubles (bytes reversed)

Description of this command:

Obtains the current values in one or more input registers as 64-bit IEEE double values assuming that bytes are received in reverse order. This command uses Modbus function 3.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-31

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

268

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Important note:

This command was added to support the double format used by Janitza UMG-503 meters.

Read Input Registers as Unsigned 16-bit Integers

Description of this command:

Obtains the current values in one or more input registers as unsigned 16-bit integers from 0 to 65535. This command implements Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-125

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Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

4

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value (0-65535)

Value in PointValue (1) = Second register value (0-65535)

...

Value in PointValue (n-1) = Last register value (0-65535)

Read Input Registers as Signed 16-bit Integers

Description of this command:

Obtains the current values in one or more input registers as signed 16-bit integers from -32768 to 32767. This command implements Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

179

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value (-32768 to 32767)

Value in PointValue (1) = Second register value (-32768 to 32767)

...

Value in PointValue (n-1) = Last register value (-32768 to 32767)

Read Input Registers as Unsigned 32-bit Integers

Description of this command:

Obtains the current values in one or more input registers as unsigned 32-bit integer numbers. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

176

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Input Registers as Signed 32-bit Integers

Description of this command:

Obtains the current values in one or more input registers as signed 32-bit integer numbers. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

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Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

175

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Input Registers as Unsigned 32-bit Integers (words reversed)

Description of this command:

Obtains current values in one or more input registers as unsigned 32-bit integer numbers with words in reverse order. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

186

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Input Registers as Signed 32-bit Integers (words reversed)

Description of this command:

Obtains current values in one or more input registers as signed 32-bit integer numbers with words in reverse order. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

185

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Input Registers as IEEE Floats

Description of this command:

Obtains the current values in one or more input registers as 32-bit IEEE floating-point values. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

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Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

166

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Input Registers as IEEE Floats (bytes reversed)

Description of this command:

Obtains the current values in one or more input registers as 32-bit IEEE floating-point values assuming that bytes are received in reverse order. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

168

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Read Input Registers as IEEE Floats (words reversed)

Description of this command:

Obtains current values in one or more input registers as 32-bit IEEE floating point values assuming that the words order is received in reversed order. This command uses Modbus function 4.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station number (0-255).

Meaning of the DriverP1 parameter:

180

Meaning of the DriverP2 parameter:

Indicates the starting memory address.

Values that are returned:

Value in PointValue (0) = First register value

Value in PointValue (1) = Second register value

...

Value in PointValue (n-1) = Last register value

Force Single Coil

Description of this command:

Forces a single logic coil to a state ON or OFF. This command implements Modbus function 5.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

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Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

5

Meaning of the DriverP2 parameter:

Indicates the coil address.

Values that are sent:

Value in PointValue (0) = New coil status (0=OFF, 1=ON)

Force Multiple Coils

Description of this command:

Forces a series of consecutive logic coils to selected ON or OFF states. This command implements Modbus function 15.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-1000 (It is convenient for the groups to be a multiple of 8 elements)

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

15

Meaning of the DriverP2 parameter:

Indicates the starting coil address.

Values that are sent:

Value in PointValue (0) = New status for first coil (0=OFF, 1=ON)

Value in PointValue (1) = New status for second coil (0=OFF, 1=ON)

...

Value in PointValue (n-1) = New status for last coil (0=OFF, 1=ON)

Preset Single Register as Unsigned 16-bit Integer

Description of this command:

Places a specified value into a holding register as an unsigned 16-bit integer value from 0 to 65535. This command implements Modbus function 6.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

6

Meaning of the DriverP2 parameter:

Indicates the register address.

Values that are sent:

Value in PointValue (0) = New register value (0-65535)

Preset Multiple Registers as Unsigned 16-bit Integers

Description of this command:

Places specified values into a series of consecutive holding registers, as unsigned 16-bit integer values from 0 to 65535. This command implements Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

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Meaning of the DriverP1 parameter:

16

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register (0-65535)

Value in PointValue (1) = New value for second register (0-65535)

...

Value in PointValue (n-1) = New value for last register (0-65535)

Preset Multiple Registers as Unsigned 32-bit Integers

Description of this command:

Places specified values into a series of consecutive holding registers, as unsigned 32-bit integer values. This command uses Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

78

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register

Value in PointValue (1) = New value for second register

...

Value in PointValue (n-1) = New value for last register

Preset Multiple Registers as Signed 32-bit Integers

Description of this command:

Places specified values into a series of consecutive holding registers, as signed 32-bit integer values. This command uses Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

77

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register

Value in PointValue (1) = New value for second register

...

Value in PointValue (n-1) = New value for last register

Preset Multiple Registers as Unsigned 32-bit Integers (words reversed)

Description of this command:

Places specified values into a series of consecutive holding registers, as unsigned 32-bit integer values with words in reverse order. This command uses Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

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Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

88

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register
Value in PointValue (1) = New value for second register
...
Value in PointValue (n-1) = New value for last register

Preset Multiple Registers as Signed 32-bit Integers (words reversed)

Description of this command:

Places specified values into a series of consecutive holding registers, as signed 32-bit integer values with words in reverse order. This command uses Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

87

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register
Value in PointValue (1) = New value for second register
...
Value in PointValue (n-1) = New value for last register

Preset Multiple Registers as IEEE Floats

Description of this command:

Places specified values into a series of consecutive holding registers as 32-bit IEEE floating point values. This command uses Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

70

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register
Value in PointValue (1) = New value for second register
...
Value in PointValue (n-1) = New value for last register

Preset Multiple Registers as IEEE Floats (bytes reversed)

Description of this command:

Places specified values into a series of consecutive holding registers as 32-bit IEEE floating point values where the bytes order is reversed. This command uses Modbus function 16.

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Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

72

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register

Value in PointValue (1) = New value for second register

...

Value in PointValue (n-1) = New value for last register

Preset Multiple Registers as IEEE Floats (words reversed)

Description of this command:

Places specified values into a series of consecutive holding registers as 32-bit IEEE floating point values where the required words order must be reversed. This command uses Modbus function 16.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-62

Meaning of the DriverP0 parameter:

Station Number (0-255). If the station number is 0, the command is sent as a broadcast message and no response is expected.

Meaning of the DriverP1 parameter:

81

Meaning of the DriverP2 parameter:

Indicates the starting register address.

Values that are sent:

Value in PointValue (0) = New value for first register

Value in PointValue (1) = New value for second register

...

Value in PointValue (n-1) = New value for last register

Important note:

This command was added to support the format used by the TSX-3722 PLC from Telemecanique.

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
[1421] PROTOCOL (Format): Negative acknowledge received from device
[2147] CONFIG (NumValues): Only one value can be read or written
[2185] CONFIG (NumValues): Too many values (max=125)
[2208] CONFIG (NumValues): Too many values (max=31)
[2229] CONFIG (NumValues): Too many values (max=62)
[3014] CONFIG (P0): Invalid device address (0-255)
[3022] CONFIG (P0): Invalid device address (1-255)
[3508] CONFIG (P1): Invalid command
[4001] CONFIG (P2): Invalid address
[8013] CONFIG (Remote): Acknowledge
[8034] CONFIG (Remote): Busy (rejected message)
[8138] CONFIG (Remote): Failure in associated device
[8168] CONFIG (Remote): Illegal data address

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[8170] CONFIG (Remote): Illegal data value
[8172] CONFIG (Remote): Illegal function
[8347] CONFIG (Remote): Unknown error

Supported devices

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

ABB ION 8400 Power Meter
ABB ION 8500 Power Meter
ABB MASTER PIECE 90 PLC
ABB PROCONTIC 07-KR31 PLC
ABB PROCONTIC CS-31/07 KR-31
ABB PROCONTIC CS-31/07 KT-31
ABB PROCONTIC CS-31/07 KT-91 using 07 MK-92
ABB PROCONTIC CS-31/07 KT-92 using 07 MK-92
ABB PROCONTIC CS-31/07 KT-93 using 07 MK-92
ACROMAG 902MB, 10 channel relay output module
ADVANTECH ADAM-4051 16 channel digital input module
ADVANTECH ADAM-4068 8 channel relay output module
AEG MODICON 984-485 PLC
AEG MODICON 984-685 PLC
AEG MODICON 984-785 PLC
AEG MODICON 984-A PLC
AEG MODICON 984-B PLC
AEG MODICON 984-X PLC
AEG MODICON A984-120 PLC
AEG MODICON A984-130 PLC
AEG MODICON A984-131 PLC
AEG MODICON A984-140 PLC
AEG MODICON A984-145 PLC
AEG MODICON Micro 110 CPU 311 00
AEG MODICON QUANTUM 140-113
AEG MODICON QUANTUM 140-213
AEG MODICON QUANTUM 140-424
ALGODUE UPM 3060
ARCOM CONTROL SYSTEMS M1 Mini RTU
AREVA ALSTOM MiCOM M300 Relays
AREVA ALSTOM MiCOM P12x/y Relays
BAKER 6532 RTU
BAKER 6532-EFM RTU
CIRCUTOR CVM-144 Network Analyzer
CONTROL MICROSYSTEMS TeleSafe 16EX RTU
CONTROL MICROSYSTEMS TeleSafe Micro16 RTU
DANIEL S500 Flow Computer
DYNAMIC Fluid Meter
ELLIOT Flow Computer
E-MON ProMon (modbus version)
E-MON Pulse Output Meters
ENDRESS HAUSER Proline Promag 53 Electromagnetic Flowmeter
ENDRESS HAUSER Proline Promass 83 Coriolis Flowmeter
FREDRIKSSON Autolog AL-16 PLC
FREDRIKSSON Autolog AL-2000 PLC
FREDRIKSSON Autolog AL-32 PLC
GENERAL ELECTRIC GE EPM 2000 Power Meter
GENERAL ELECTRIC GE kV2c with Modbus card
IEA S6800 4-Digit Displays
IEA S6800 6-Digit/1-Setpoint Displays
IEA S6800 6-Digit/3-Setpoint Displays
IEA S9800 Single-Loop Controller
ITT BARTON 1140 Flow Meter
JANITZA ELECTRONIC UMG 503 Measuring Device

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KOYO Direct Logic DL205 PLC
KOYO Direct Logic DL305 Series
KOYO Direct Logic DL330 PLC
KOYO Direct Logic DL330P PLC
KOYO Direct Logic DL340 PLC
KOYO Direct Logic DL405 Series
KOYO Direct Logic DL430 PLC
KOYO Direct Logic DL440 PLC
MAGNETEK GPD 515 Drive
MULTILIN SR735/SR737 Feeder Relay
OBVIUS A8923-4 IO Module (4A4P)
OBVIUS R9120 ModHopper
OMNI Flow Computer
PDI BCMS
POWER MEASUREMENT 3300 ACM Power Meter
POWER MEASUREMENT 3710 ACM Power Meter
POWER MEASUREMENT 7300 ACM Power Meter
POWER MEASUREMENT ION 6200
POWER MEASUREMENT ION 6300
POWER MEASUREMENT ION 7300, 7330, 7350
POWER MEASUREMENT ION 7500, 7600
POWER MEASUREMENT ION 8400 Power Meter
POWER MEASUREMENT ION 8500
POWER MEASUREMENT ION 8500 Power Meter
SCHENK Vibration Meters
SCHERZO Digital Controllers
SCHNEIDER ELECTRIC SR760 PROTECTION RELAY
SEEKIRK Annunciator A1700
SIEMENS ION 9200
SIEMENS ION 9300, 9330, 9350
SIEMENS ION 9500, 9600
SIEMENS MICRO PLC S7-214 with Special Software
SPIRAX-SARCO NOVUS N-2000 PID Controller
SQUARE-D POWER LOGIC Enercept power meter class 3020
SQUARE-D POWER LOGIC Energy Meter with comm board.
SQUARE-D POWER LOGIC PM710
TECPET MNT02 Tank Level Meter
TECPET MNT06 Tank Level Meter
TELEMECANIQUE TSX 17-20 SCG 1131/1161 PLC
TELEMECANIQUE TSX 3722 PLC
TEXAS INSTRUMENTS TI-330 PLC Using 01DM Module
TEXAS INSTRUMENTS TI-335 PLC Using 01DM Module
TEXAS INSTRUMENTS TI-425 PLC Using 01DM Module
TEXAS INSTRUMENTS TI-430 PLC Using 01DM Module
TEXAS INSTRUMENTS TI-435 PLC Using 01DM Module
VERIS Enercept H8035 and H8036
VERIS H663 and H704 Branch Current Monitor
VERIS H8163 Energy Meter with comm board
VERIS H8238 Multi Circuit Monitor
VERIS H8436, H8437 Power Meter
VERIS HXO/T-485M
ETC.

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