

DATASHEET

DeviceNet™ to Modbus Gateway 1782-JDM-x

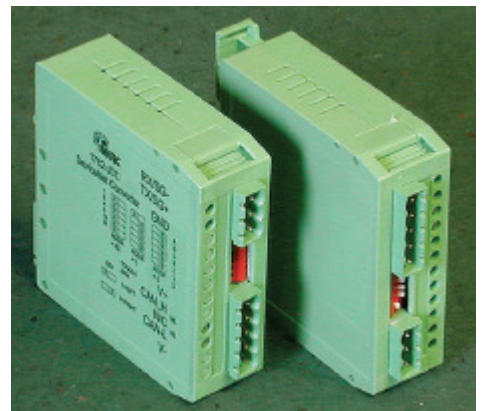
The DeviceNet™ to Modbus Gateway is a cost effective interface that allows users to integrate serial Modbus slave devices into a Control system through a DeviceNet network. These gateways function as a DeviceNet adapter and support connection to a wide variety of serial Modbus devices through an RS-485, RS-232 or RS-422 port. The gateway is a general-purpose interface that enables exchanges of data between your PAC or PLC and the Modbus slave(s) devices through the DeviceNet scanner. All Modbus slave responses are passed without changing any of the data, which enables these gateways to be used in a wide variety of applications.

DeviceNet Features:

- ◆ Meets ODVA DeviceNet specification
- ◆ Device Profile 12 – communications slave device
- ◆ Powered from DeviceNet network
- ◆ DIN-rail mountable
- ◆ Pluggable 5-pin DeviceNet connection
- ◆ Address selection via DIP switches
- ◆ Autobaud operation
- ◆ Supports Polled I/O, Cyclic I/O, Change-of-State, and Explicit Messaging
- ◆ EDS file included for configuration
- ◆ Standard DeviceNet module and network status LEDs

Modbus Features:

- ◆ Choice of isolated RS-485, RS-232 or RS-422 serial interface
- ◆ Modbus master
- ◆ Supports Modbus ASCII or RTU
- ◆ All Modbus Function Codes are supported
- ◆ Forwards the slave response message received without interpretation to the DeviceNet scanner
- ◆ All supported Modbus registers in the slave devices are accessible
- ◆ Pluggable RS-232 / RS-485 3-pin connection or RS-422 5-pin connection
- ◆ Serial port transmit and receive LEDs



Hardware Specifications

Specification	Description
Serial Baud Rate Selection	Software selectable (1200 through 38.4k baud)
Cable Connection	RS-232, RS-485: 3-pin pluggable header (male) Phoenix Contact MSTBA 2.5/3-G-5.08/AU or equivalent RS-422: 5-pin pluggable header (male) Phoenix Contact MSTBA 2.5/5-G-5.08/AU or equivalent DeviceNet: 5-pin pluggable header (male) Phoenix Contact MSTBA 2.5/5-G-5.08/AU or equivalent Plugs: Phoenix Contact MSTB 2.5/3-ST-5.08/AU and/or MSTB 2.5/5-ST-5.08/AU or equivalents included
LED Indicators	MS Module Status: green/red bi-color NS Network Status: green/red bi-color RX: green TX: green
Maximum Power	Network Isolation: 1000 Vdc Current: 160 mA @ 11 Vdc to 70 mA @ 25 Vdc Unregulated Power Supply Power: 1.75 W
Dimensions	Length: 3.54" (90 mm) Width: .98" (25 mm) Height: 3.11" (79 mm)
Operating Temp	0 °C to 60 °C
Humidity	Up to 95% RH, with no condensation

Ordering Information

DeviceNet™ to Modbus Gateway

1782-JDM-1 Isolated RS-232

1782-JDM-2 Isolated RS-485

1782-JDM-4 Isolated RS-422

How to Contact Us: Sales and Support

Sales and Technical Support for this product are provided by ProSoft Technology. Contact our worldwide Sales or Technical Support teams directly by phone or email:

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