

DATASHEET

Modbus Slave Communications Adapter 3170-MBS



The 3170-MBS Modbus Slave Communication Adapter can interface up to 8 Rockwell Automation FLEX and/or Integra I/O modules directly with any Modbus Master.

Features

Benefits

Powerful network integration

- ◆ Move data between dissimilar networks using two communication protocols on one gateway
- ◆ Protocols share access to a common memory database to exchange data between networks
- ◆ View diagnostic data for both networks from a single configuration/debug port

Modbus slave protocol interface

- ◆ Emulate Modbus slave device on each individually-configurable application port
- ◆ Supports Modbus RTU and Modbus ASCII protocol versions
- ◆ Floating point data movement supported, including support for Enron, Daniel[®], and other implementations
- ◆ Suitable for SCADA and field device interface applications

Backed by ProSoft Technology[®]

- ◆ Industrial data communications experts who understand your protocols, devices, and applications
- ◆ Three year standard warranty

Functional Specifications

- The 3170-MBS has read/write access to all FLEX and Integra modules. This allows a Host system to perform all functions necessary to get all I/O modules functioning. All register data values can be accessed using Function Codes 3, 4, 6 and 16. Bit level Function Codes 1, 2, and 5 are also supported
- Multi-drop on an RS-485 link with other Modbus compatible devices
- Interface analog and/or discrete I/O directly to a host

FLEX I/O Interfaces

Specification	Description
Form Factor	Single Slot 1794 Backplane compatible Locate in any slot of Backplane
Backplane current load	20 mA @ 5 V
External power supply	12 Vdc to 24 Vdc 340 mA to 170 mA
Operating temperature	0°C to 55°C (32°F to 131°F)
Storage temperature	-40°C to 85°C (-40°F to 185°F)
Shock	30 g operational;50 g non-operational
Vibration	5 g from 10 Hz to 150 Hz
Relative humidity	5% to 95% RH, (with no condensation)
LED indicators	Module status Backplane transfer status Application status Serial activity and error LED status
Application serial Port	Mini-DIN RS-485 jumper selectable 500V optical isolation from backplane
Dimensions (with Module installed in Base)	3.7H x 3.7W x 2.7D inches 94H x 94W x 69D mm

Agency Approvals & Certifications

CE	EMC-EN61326-1:2006; EN6100-6-4:2007
CSA/cUL	C22.2 No. 213-1987
CSA CB Certified	IEC61010



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Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

Modbus Slave Communications Adapter

3170-MBS

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: www.prosoft-technology.com and select Distributors from the menu.

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europe@prosoft-technology.com
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