Modbus SCANport Adapter

1550-MBS

The ProSoft 1550-MBS Modbus Module is designed to allow Modbus based PLCs and Host systems to interface directly to the Rockwell Automation family of SCANport based devices.

Features and Benefits

Included in this family are the Rockwell Automation Variable Speed Drives (1305 Micro, 1336 Plus, Vector, Force, etc.), the SMC Dialogue Plus and the SMP3. The following functionality is available in the 1550-MBS unit: Multi-drop on an RS-485 link with other Modbus compatible devices Interface via R-232 in a point-to-point mode Be applied in existing or retrofit applications where other manufacturer's devices are in use.

Simple to Use

The 1550-MBS module is simple to use, requiring only the setting of several dip-switch options. The parameters from the Rockwell Automation devices are pre-mapped to simplify reading and writing using standard Modbus commands.

Accessible Parameters

The 1550-MBS has read/write access to the entire parameter table in a SCANport device. All parameters can be accessed using Function Codes 3, 6 and 16. In addition high speed parameter updating can be configured through Datalinks.

Installation, Set Up and Operation

The ProSoft 1550-MBS is a SCANport gateway allowing all Rockwell Automation SCANport compatible devices to interface to a Modbus host. The product's functional characteristics are enabled and controlled with the setting of several dip switches. Each product is shipped with a User Manual detailing its installation and operation.

Functional Specifications

Modbus Specifications

- RTU mode (binary) with CRC-16 error checking
- Accepts broadcast commands from the Master
- Function codes
  - o 3: Read multiple output registers
  - o 6: Preset (Write) single data register
  - o 16: Preset (Write) multiple data registers

c(UL)us Class 1, Division 2, Groups A, B, C, and D Hazardous Locations.

CE

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Applications using the 1550-MBS modules include many industrial sectors

- *Food processing*
- *Mining*
- *Pulp and paper*
- *HVAC*

How to Contact Us: Sales and Support

All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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- Pre-assigned Modbus memory map
  - Read/write: Command Control and Reference, Datalinks Out: A to D, Up to 575 parameter values
  - Read Only: Status/Feedback, Datalinks In: A to D

- Configuration via dip switches
  - Slave Address: 1 to 247
  - Fault on Loss of Comm. Enable
  - SCANport Messaging Options: Datalinks A, B, C, D Enable

- Communication Parameters
  - Address: 1 to 247
  - Parity: None, Odd or Even
  - Stop Bits: 1 or 2
  - Baud Rate: 300 to 19.2 k

- Communication port connections
  - Modbus Female 9-pin DB: Supports RS-232 and RS-485
  - SCANport connector

Hardware Specifications

Specification	Description
Configuration via dip switches	Slave Address: 1 to 63
Baud Rate	300 to 19200 baud
Parity	None, Odd and Even
Stop Bits	1 or 2
Physical Link	RS-232, RS-422 or RS-485
	Female 9-pin D shell connectors
SCANport Messaging	Type 4 Enable
	Type 5 Enable
	Type 6 Enable
	Type 7 Enable
Supplied in two forms:	Open Style Power supplied by drive, mounted directly to drive
	Enclosed Power supplied externally (120 VAC)
Status LED	SCANport Status (bi-color)
	Serial Port Status (bi-color)
	Tx/Tx Activity Status (amber)
Current Consumption	60 ma DC
Input Voltage	Open Supplied by drive
	Enclosed 85 to 264 VAC, 1 Phase 45 to 63 Hz
Operating Temp	0° to 50°C
Storage Temp	–40° to 85°C

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at http://www.prosoft-technology.com for a complete list of products.

Ordering Information

To order this product, please use the following:

1550 MBS   Modbus SCANport Adapter

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to http://www.prosoft-technology.com

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