





Rockwell Automation Remote I/O to Honeywell DE Master Gateway 5606-RIO-DEM

The RIO-DEM modules are the ideal solution for the many applications where Remote I/O connectivity can be used to integrate Honeywell DE devices into a system. The Remote I/O gateway is a powerful module designed with Slave support, enabling easy connection to Rockwell Automation PLCs (CLX, SLC, PLC, CPLX, and similar devices). In combination with the Honeywell DE Master support, the module provides a very powerful interface to the many Honeywell DE slave devices which are in use in the industrial marketplace today. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

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Rockwell Automation Remote I/O to Honeywell DE Master Gateway

5606-RIO-DEM

The ProLinx Rockwell Automation Remote I/O Adapter to Honeywell DE Master Gateway creates a powerful connection between devices on a Remote I/O network and Honeywell DE slave devices. This stand-alone DINrail mounted protocol gateway provides one Remote I/O port and eight Honeywell DE Master channels.

The RIO interface is an adapter (slave) which can be connected to a scanner (master) that controls the data transfer. The module also supports limited high speed data transfer via the Input and Output images.

The DEM protocol driver is designed to provide a tightly integrated communications interface between other protocols of the ProLinx platform and the Honeywell DE instruments. Compatible DE devices include a large array of field devices including pressure, temperature, metering, and many other instruments.

Rockwell Automation Remote I/O

The RIO interface is an adapter (slave) and is connected to a scanner (master) that controls the data transfer. For example, the master/slave relationship can be accomplished using the RIO module (adapter/slave unit) with a Rockwell Automation PLC5 (scanner/master unit). Ladder logic must be programmed into a PLC to perform BTR/BTW commands to receive and transmit data between the module and the PLC. The module also supports limited high speed data transfer via the input and output images.

Software Configurable Parameters		
Rack Number	0 to 63	
Addressing		
Rack Size	1/4-rack, 1/2-rack, 3/4-rack and full rack	
Starting Group	0,2,4,6	
Last Rack	Yes or No	
Baud Rate	57.6K, 115K, 230K	
Functional Specifications		
Supports block-transfers of data with scanner		
Supports I/O data movement. Amount determined by rack		
size configuration		
BTW Command – up to 64 words		
BTR Command – up to 63 words		
Physical Connection		
Remote I/O connector	Standard 3-screw termination connector	



Honeywell DE Master

The ProLinx DEM Protocol Driver is designed to interface with up to 8 DE devices. Data is exchanged between the DE instruments and the driver using the internal database contained in the DEM module.

DE Communications

- Built in accordance with the Honeywell DE specification
- Supports up to 8 single PV transmitters, 2 multivariable transmitters with 4 PVs each, or a mix of single and multivariable equaling 8 input channels
- Instrument database mismatch verification
- Interfaces directly to Honeywell Field Terminal Assembly (FTA) with ProSoft-supplied cable
- Supports redundant and non-redundant FTA implementations
- Single cable connection from DEM module to FTA

Physical Specifications

Power Source	External 24 VDC source connection on the front of the DEM module provides instrument loop power
LEDs for Visual Module Status	DE Active
	DE Error

General Specifications

The ProLinx Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

Hardware Specifications

Description
24 VDC nominal
18 to 36 VDC allowed
Positive, Negative, GND Terminals
2.5 mm screwdriver blade
500 mA max@ 24 VDC
–20 to 50°C (–4 to 122°F)
–40 to 85°C (–40 to 185°F)
5 to 95% (non-condensing)
Standard: 5.20H x 2.07W x 4.52D in.
(13.2cmH x 5.25cmW x 11.48cmD)
Extended: 5.20H x 2.73W x 4.52D
in. (13.2cmH x 6.934cmW x
11.48cmD)
Power and Module Status
Application Status
Serial Port Activity LED
Serial Activity and Error LED Status

Specification	Description
Configuration Serial Port	DB-9M RS-232 only
	No hardware handshaking
Ethernet Port (Ethernet	RJ45 Connector
modules only)	Link and Activity LED indicators
Application Serial Ports	RS-232/422/485
	RS-232 handshaking configurable
	RS-422/485 screw termination
	included
Serial Port Isolation	2500V RMS port signal isolation per UL 1577
	3000V DC min. port to ground and port to logic power isolation
Shipped with Each Unit	Mini-DIN to DB-9M serial cables
	4 ft RS-232 configuration cable
	2.5mm screwdriver
	CD (docs and Configuration utility)
	RS-422/485 DB-9 to Screw Terminal Adaptor (1 or 4, depending on ports)

ProSoft Configuration Builder

ProSoft Configuration Builder (PCB) provides a quick and easy way to manage module configuration files customized to meet your application needs. PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations to new projects.

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:

5606-RIO-DEM	Rockwell Automation Remote I/O to
	Honeywell DE Master Gateway

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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