



Johnson Controls Metasys Slave Interface Module

PTQ-N2

The PTQ Johnson Controls Metasys Slave Communication Module allows Schneider Electric Quantum I/O compatible processors to interface easily with other Johnson Controls N2 master devices.

Features and Benefits

The PTQ-N2 module acts as an input/output module between the Johnson Controls Metasys network and the Quantum processor. The module acts as a slave receiving commands from a master device. The data transfer from the Quantum processor is asynchronous from the actions on the Johnson Controls Metasys network. An internal database in the module exchanges data between the processor and the Johnson Controls Metasys Master (NCM, N-30, NAE, NIE).

General Specifications

- Single Slot - Quantum backplane compatible
- The module is recognized as an Options module and has access to PLC memory for data transfer
- Configuration data is stored in non-volatile memory in the ProTalk module
- Up to six modules can be placed in a rack
- Local rack - The module must be placed in the same rack as processor
- Compatible with common Quantum / Unity programming tools
- Quantum data types supported: 3x, 4x
- High speed data transfer across backplane provides quick data update times
- Sample ladder file available

Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
LED Indicators	Module Status Backplane Transfer Status Serial Port Activity LED Serial Activity and Error LED Status

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The PTQ-N2 module is ideal for Energy Management Applications.

Applications benefiting from the N2 module are prevalent in commercial building and energy management projects. Single or multiple processor applications will benefit through reduced installation costs and increased functionality.

How to Contact Us: Sales and Support

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Specification	Description
Configuration	DB-9M PC Compatible
Serial Port (PRT1)	RS-232 only No hardware handshaking
Application Serial Ports	(PRT2, PRT3) DB-9M PC Compatible RS-232/422/485 jumper selectable RS-422/485 screw termination included RS-232 handshaking configurable 500V Optical isolation from backplane

Functional Specifications

- Support for the storage and transfer of internal database registers to/from the Quantum processor's controller tags
- Two ports to emulate a Johnson Controls N2 slave
- Supports the following N2 objects:
 - Binary Input: Up to 960 points
 - Analog Input: Up to 300 points
 - Binary Output: Up to 960 points
 - Analog Output: Up to 300 points
- Supported Commands/Sub-commands
 - 0/4: Poll Message No Acknowledge
 - 0/5: Poll Message with Acknowledge
 - 0/9: Status Update
 - 1/1: Read Analog Input Attributes
 - 1/2: Read Binary Input Attributes
 - 1/3: Read Analog Output Attributes
 - 1/4: Read Binary Output Attributes
 - 2/1: Write Analog Input Attributes
 - 2/2: Write Binary Input Attributes
 - 2/3: Write Analog Output Attributes
 - 2/4: Write Binary Output Attributes
 - 7/2/3: Override Analog Output
 - 7/2/4: Override Binary Output
 - F: Identify Device Type
- The following commands are recognized, and acknowledged, but are not communicated in any way to the processor, and do not return any data:
 - 0/0: Time Update
 - 0/8: Warm Start
 - All other commands return a Bad Command Error Code
- Configurable through the configuration file for the following:
 - Slave Address (assignable individually for Port 1 and 2)
 - Analog Input Object Count
 - Binary Input Object Count
 - Analog Output Object Count
 - Binary Output Object Count

- Warning and Alarming functions performed on Analog Input and Binary Input data types
- Change of State Response buffering
- Communication status error codes and statistics returned per port
- Communication parameter: Baud rate 9600 bps
- Memory mapping is pre-assigned to optimize data access and to ease implementation

A port configured as a Johnson Controls N2 slave permits a remote master to interact with data contained in the module. This data is derived from the Quantum processor.

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:

PTQ-N2 Johnson Controls Metasys Slave Interface Module

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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