



Johnson Controls Metasys Slave Interface Module

MVI69-N2

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.

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Languages spoken include: Spanish, English

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Johnson Controls Metasys Slave Interface Module

MVI69-N2

The MVI69 Johnson Controls N2 Communication Module allows CompactLogix I/O compatible processors to interface easily with other Johnson Controls N2 master devices.

Features and Benefits

The MVI69-N2 module acts as an input/output module between the Johnson Controls Metasys network and the CompactLogix backplane. The module acts as a slave receiving commands from a master device. The data transfer from the CompactLogix 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 - 1769 backplane compatible
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module
- Ladder Logic is used for data transfer between module and processor. Sample ladder file included.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included.
- Supports all CompactLogix processors: L20/L30/L31/L32/L35, L43 and L45 (L43 and L45 supported with RSLogix 5000 v16.03 or later)
- Also supports MicroLogix 1500 LRP

Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Current Load	800 mA max@ 5 VDC Power supply distance rating of 2
Operating Temp.	0 to 60°C (32 to 140°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
LED Indicators	Battery and Module Status Application Status Serial Port Activity CFG Port Activity

Specification	Description
CFG Port (CFG)	RJ45 (DB-9F with supplied cable) RS-232 only No hardware handshaking
App Ports (P1,P2) (Serial modules)	RS-232, RS-485 or RS-422 (jumper selectable) RJ45 (DB-9F with supplied cable) RS-232 handshaking configurable 500V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration Cable

Functional Specifications

Some of the general specifications include:

- Support for the storage and transfer of internal database registers to/from the CompactLogix processor's controller tags
- Two ports to emulate a Johnson Controls N2 slave
- Supports the following N2 objects:
 - o Binary Input: Up to 960 points / 60 words
 - o Analog Input: Up to 300 points / 600 words
 - o Binary Output: Up to 960 points / 60 words
 - o Analog Output: Up to 256 points / 512 words
- Supported Commands/Sub-commands
 - o 0/4: Poll Message No Acknowledge
 - o 0/5: Poll Message with Acknowledge
 - o 0/9: Status Update
 - o 1/1: Read Analog Input Attributes
 - o 1/2: Read Binary Input Attributes
 - o 1/3: Read Analog Output Attributes
 - o 1/4: Read Binary Output Attributes
 - o 2/1: Write Analog Input Attributes
 - o 2/2: Write Binary Input Attributes
 - o 2/3: Write Analog Output Attributes
 - o 2/4: Write Binary Output Attributes
 - o 7/2/3: Override Analog Output
 - o 7/2/4: Override Binary Output
 - o F: Identify Device Type
- The following commands are recognized, and acknowledged, but are not communicated in any way to the CompactLogix, and do not return any data:
 - o 0/0: Time Update
 - o 0/8: Warm Start
 - o All other commands return a Bad Command Error Code

- Configurable through the configuration file for the following:
 - o Slave Address (assignable individually for Port 1 and 2)
 - o Analog Input Object Count
 - o Binary Input Object Count
 - o Analog Output Object Count
 - o 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 CompactLogix processor.

Additional Products

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Ordering Information

To order this product, please use the following:

MVI69-N2 Johnson Controls Metasys Slave Interface
Module

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