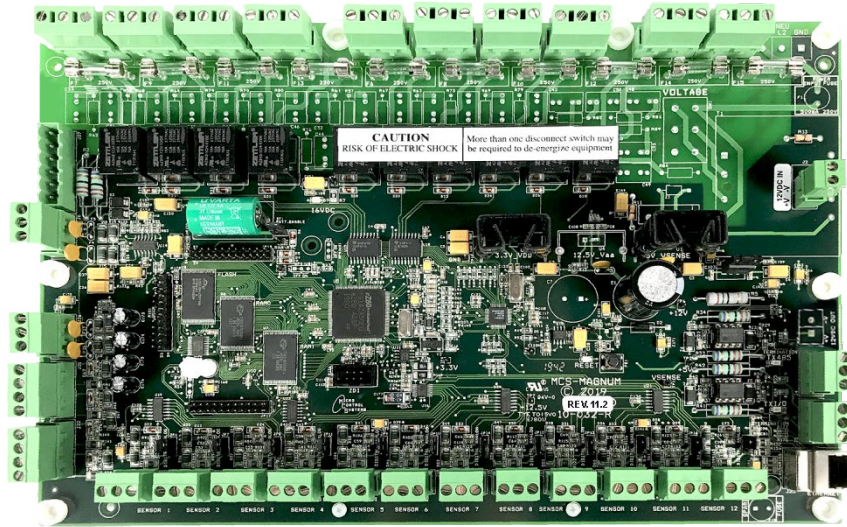




MCS-MAGNUM-N-12

Description & Specifications



Part # MCS-MAGNUM-N-12



Description

The **MCS-MAGNUM-N-12** is a durable microprocessor based controller designed for the hostile environments in the HVAC/R industry. It is designed to be the primary manager of the package it is controlling.

The Magnum provides flexibility with setpoints and control options that can be selected prior to commissioning a system or when the unit is live and functioning. Displays, alarms and other interfaces are accomplished in a clear and simple language that informs the user as to the status of the controller.

The **MCS-MAGNUM-N-12** consists of a master micro controller. Complementing the Magnum micro controller are the **MCS-RO-BASE**, **MCS-SI-BASE** and **MCS-RO-EXT**, **MCS-SI-EXT** expansion boards which allow a maximum of 112 inputs and 108 outputs. Communication with these units occurs at 38,400 baud over the MCS-I/O port, which is dedicated to this purpose.

The **MCS-MAGNUM-12** includes the integration of Modbus RTU communication protocol, which is based on the master-slave architecture for data transfer over RS485 to a BMS system.

A **MCS-BMS-GATEWAY** is available to provide protocols for: Bacnet IP, Bacnet MSTP, Modbus IP, Lontalk, or Johnson N2 communication interface. Information that can be transmitted includes the status of the unit, status of the inputs and outputs, alarm information, and setpoints.

A complete software support package is available for your PC, allowing for system configuration, dynamic on-line display screens, remote communication, graphing and more.

Specifications

Controller

- Dimensions..... 12.0"w, 8.0"h, 2.0"d
- Mounting Holes..... Mounts on a backplane using eight #6 sheet metal screws
- Operating Temperature..... -40°F to +158°F (-40°C to +70°C)
- Operating Humidity..... 0-95% Non-Condensing
- Storage Temperature -40°F to +158°F (-40°C to +70°C)
- Microprocessor Zilog eZ80 Acclaim! @ 50mhz
- Sensor Inputs (SI)..... 12 inputs 0-5vdc (10-bit A/D)
- Flash Memory..... 8 GB EMMC
- Memory Chip 128 MB DDR3
- Digital Inputs..... 4 inputs 0 or 5vdc only
- Relay Outputs (RO)..... 10 outputs 6.3amps @ 230vac
- Analog Outputs (AO) 4 outputs 0-10vdc
- Input Power (Standard) 12 vdc Regulated Power Supply
- Minimum (Brown out) 9.44 vdc
- Amp Draw (Loaded) 857.0 mA
- MCS-I/O Comm Port 1 @ 38,400 baud
- RS-485 Comm Port 1 @ 19,200 baud
- Ethernet 10/100 Mbps Ethernet
- Protocols available Modbus RTU, Modbus IP,
- Real Time Clock Battery backup
- Power Detection Automatic power fail reset

Packaging

- Ship Weight 2.00 lb (approx)
- Box Dimensions..... 14" x 9.5" x 2.5" (approx)

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