MCS-MAGNUM-8 DOOR-12
Description & Specifications

RoHS Compliant

Part #
MCS-MAGNUM-8 DOOR-12

c UL us
File No: E169780

Description

The **MCS-MAGNUM-8 DOOR-12** is a unit for converting an MCS-8 Micro Controller system to the MCS-MAGNUM Micro Controller.

The MCS-MAGNUM-8 DOOR-12 consists of a MCS-MAGNUM control board along with a keypad, LCD display and a RS-485 connection on front of door frame for easy PC access.

The **MCS-MAGNUM** 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.

A RS-485 port is also provided for communication with Building Management Systems (BMS). Other new features include the integration of BACnet IP, Modbus IP and Modbus RTU into the Magnum. A **MCS-BMS-GATEWAY** is also available that allows communication via BACnet MSTP and LonWorks, or the data format is available to allow the user to communicate directly.

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

POWER SUPPLY NOT INCLUDED, consult MCS-SALES for information on Power Supply sold for this controller.

Specifications

NEMA Rating – Type 1 Enclosure

Panel Enclosure

Dimensions	17”w, 12.125”h, 4.5”d approx.
Cutout / Mounting	15.75”w, 10.875”h, Drill 10 holes

TEMPERATURE RANGE ENCLOSURE/Keypad/LCD

Operating Temp. of enclosure.	-4°F to +158°F (-20°C to + 70°C)
Operating Humidity	0-95% Non-Condensing
Storage Temp.	-22°F to +185°F (-30°C to + 85°C)

CONTROLLER SPECIFICATION

Microprocessor	Zilog eZ80 Acclaim! @ 50mhz
Sensor Inputs (SI)	12 inputs 0-5vdc (10-bit A/D)
Digital Inputs	4 inputs 0 or 5vdc only
Relay Outputs (RO)	10 outputs 6.3amps @ 230vac
Analog Outputs (AO)	4 outputs 0-10vdc
Printed Circuit Board	Six layer with separate power and ground planes
Input Power (Standard)	12vdc Regulated Power Supply
Minimum (Brown in)	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
Real Time Clock	Battery backup
Power Detection	Automatic power fail reset

KEYPAD / LCD

Display	128 x 64 dot pixel STN monochrome graphics LCD with 2.8” diagonal viewing area
Color	White characters on a blue background (Reversible)
Keypad Size	7.25”w x 8.50”h (6 mounting studs)
Keypad Layout	9 keys (3 function keys)
Connection	6 conductor shielded cable
RS-485 Comm Port	1 @ 19,200 baud

Packaging

MCS-SHIELDWIRE-GROUNDING multi-terminal splicing connector with 9”- 16 awg wire with ring terminal (package of 2).

Shipping weight ..... 18 lb
Box Dim. 16” X 12.5” X 18”

Options

-232 .....RS-232 port on back of Keypad

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