MCS-MAGNUM-8 DOOR
Description & Specifications

RoHS Compliant

Part #
MCS-MAGNUM-8 DOOR

c UL us
File No: E169780

Description

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

The MCS-MAGNUM-8 DOOR 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.

Specifications

NEMA Rating – Type 1 Enclosure - IP20 Rating

Enclosure is intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment and is not protected from liquids.

Panel Enclosure

Dimensions ..... 17”w, 12.125”h, 4.5”d approx.

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) ..... 115 or 230vac ±10% 50/60Hz @77°F (25°C) ambient, 20VA max (Voltage is field selectable)
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

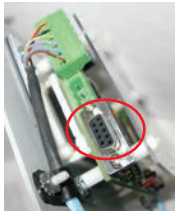
KEYPAD / LCD

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

Options

-24 ..... 24vac input power ±10% 50/60Hz @ 77°F (25°C) ambient

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



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