

MCS-MAGNUM-DOOR-NEMA4-12

Description & Specifications

Waterproof Keypad



Part # MCS-MAGNUM-12-DOOR-NEMA4





Description

The MCS-MAGNUM-DOOR-NEMA4-12 has been sealed in its own frame using a new Gasket (BISCO HT-800 Medium Cellular Silicone). The RS485 port has been added to the back of the Keypad. Moving the communicating port to the back, adding the new gasket, provides the unit with a NEMA4 rating. Operating Temperature -4°F to +158°F (-20°C to +70°C)

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.

The MCS-MAGNUM-DOOR-NEMA4-12 consists of a control board along with a keypad and display. Complementing the Magnum micro controller are the MCS-RO-BASE/EXT and MCS-SI-BASE/EXT expansion boards. This allows for system expansion to 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.

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

MCS-MAGNUM-DOOR-12-NEMA4 ships with MAGNUM Hardware Mounting Kit which includes eight #6 sheet metal screws, and MAG-KEYPAD Cable for connecting to the Magnum.

Specifications

Controller

Dimensions	12.0"w, 8.0"h, 2.0"d
Mounting Holes	Mounts on a backplane utilizing
	eight through-hole studs
Operating Temperature	40°F to +158°F (-40°C to +70°C)
Operating Humidity	
	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)
Digital Inputs	
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)	12 vdc Regulated Power Supply
Minimum (Brown in)	
Amp Draw (Loaded)	
MCS-I/O Com Port	
RS-485 Com Port	1 @ 19,200 baud
Ethernet	10/100 Mbps Ethernet
Real Time Clock	Battery backup
Power Detection	Automatic power fail reset

Keypad/LCD

Display	•
	monochrome graphics LCD with
	2.8" diagonal viewing area
Gasket Material	HT-800 Medium Cellular Silicone
	NEMA 4
Color	White characters on a blue
	background (Reversible)
Keypad Size	7.25"w x 8.50"h x 1.77"d
	(8 mounting studs)
Keypad Layout	9 keys (3 function keys)
Connection	6 conductor shielded cable
	(max length of cable is 10 feet)
RS485 Com Port	1@19200 Baud
Operating Temperature	4°F to +158°F (-20°C to +70°C)
Operating Humidity	0-95% Non-Condensing
	22°F to +185°F (-30°C to +85°C)

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

Options

-232 RS-232 port on back of Keypad

Packaging

Revision 2021-02-23