



MCS-MAGNUM-NEMA4-KEYPAD

Description & Specifications



Photo shown with options installed*



Part # **MCS-MAGNUM-NEMA4-KEYPAD**

Description

The **MCS-MAGNUM-NEMA4-KEYPAD** is a custom built enclosure made of powder coated aluminum for durability and longevity. It is a NEMA TYPE 4 - IP66 rating. The interior left hand swing door is mounted with three four-inch hinges for strength. The enclosure is designed for areas which may be regularly hosed down or are in very wet or oily conditions. The enclosure provides protection from dust, dirt, oil and water.

Communication to these units occur at 38,400 baud over the MCS-I/O port which is dedicated for this purpose.

MCS-MAGNUM-NEMA4-KEYPAD enclosure consists of a MCS-MAGNUM-N along with 9 Button/2.8" Monochrome LCD Display, 20 amp circuit breaker, an electrical outlet for plug-in power at the box and a industrial 8 port Ethernet switch.

The following warning lights and switches are included in the enclosure; MB-Alarm and MB-Warning.

Additional options are available as shown under options.

*IP66

An IP66 rated fixture is protected against multi-directional, high-pressure water jets. To pass IP66 testing, the fixture must be able to withstand water projected from 0.50-inch nozzle, multi-directional, high-pressure jets. This test must be run for a minimum of three minutes, at a distance of three yards, with a water volume of 26.4 gallons per minute and a pressure of 100 kPa.

Specifications

NEMA Rating – Type 4 Enclosure - IP66 Rating*

Indoor or Outdoor, provides a degree of protection against falling rain, splashing water and hose directed water, undamaged by formation of ice on the enclosure.

Enclosure – Large Box

Dimensions.....24"w x 30"h x 12"d
Mounting Holes.....4 external wall-mount brackets

Temp. Range for Enclosure & Touch Screen

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

Controller Specification

MicroprocessorZilog 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 BoardSix 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 Port1 @ 38,400 baud
RS-485 Comm Port1 @ 19,200 baud
Ethernet10/100 Mbps Ethernet
Real Time ClockBattery backup
Power DetectionAutomatic power fail reset

Keypad / Lcd

Display128 x 64 dot pixel STN monochrome graphics LCD with 2.8" diagonal viewing area
ColorWhite characters on a blue background (Reversible)
Keypad Size7.25"w x 8.50"h (6 mounting studs)
Keypad Layout.....9 keys (3 function keys)
Connection6 conductor shielded cable
RS-485 Comm Port1 @ 19,200 baud

Options

-MB-TOUCHSCREEN7", 10.1 or 15.4 1280x800 Resolution
-MB-WIRELESS-MODEMCellular Modem with 2 yr subscription
-MB-RO10-(24/115/230)10 relay output expansion board
-MB-SI16-AO4-(24/115/230)16 sensor input expansion board
-MB-24VOLT-(115/230)115(230) to 24vac transformer
-MB-WARNING-(24/115/230)Yellow warning indicator
-MB-ALARM-(24/115/230)Red alarm indicator
-MB-RUN-LT#(1/2/3/4)Green run indicator
-MB-RUN-SWRun/Stop selector switch
-MB-EMERG-SWEmergency Stop switch
-MB-COMP#(1/2/3/4)Single compressor on/off switch
-MB-BYPASSMomentary bypass push button
-MB-ETHERNETIndustrial rated RS-232/Ethernet device
-MB-ETHERNET-SWEthernet switch and power supply
-MB-BMS-GATEWAYBacNet IP to MSTP/Lontalk
-MB-EXV-DRIVER-xxControl board for EXVs

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