



MCS-MAGNUM-NEMA-15.4-xxx

Description & Specifications



Photo shown with options installed*

Optional -MB-EMERG-SW mounted to outside of box

Part # MCS-MAGNUM-NEMA-15.4-xxx

Description

The **MCS-MAGNUM-NEMA-15.4** 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.

The **MCS-TOUCH-15.4** is a new touchscreen interface designed to simplify user access with the MCS-MAGNUM utilizing MCS-CONNECT to provide both graphics and service mode access to technicians. Information and graphics on the TOUCH-15.4 are shown on a 15.4" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

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

Standard MCS-MAGNUM-NEMA-15.4 enclosure consists of a MCS-MAGNUM along with a touchscreen 15.4" display, 20 amp circuit breaker, an electrical outlet for plug-in power at the box and a industrial 8 port Ethernet switch.

***The above photo shows options installed:** -MB-EMERG-SW, mounted on the left outside the box, -MB Keypad Door, -MB-RO10 expansion board plus various switches and lights.

Options

- MB--KEYPAD-DOOR 9 Button/2.8" Monochrome LCD Display
- MB-WIRELESS-MODEM Cellular 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-SW Run/Stop selector switch
- MB-EMERG-SW Emergency Stop switch
- MB-COMP#(1/2/3/4) Single compressor on/off switch
- MB-BYPASS Momentary bypass push button
- MB-ETHERNET Industrial rated RS-232/Ethernet device
- MB-ETHERNET-SW Ethernet switch and power supply
- MB-BMS-GATEWAY BacNet IP to MSTP/Lontalk
- MB-EXV-DRIVER-xx Control board for EXVs

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

Ethernet.....10/100 Mbps Ethernet

Real Time ClockBattery backup

Power DetectionAutomatic power fail reset

Touch Screen 15.4 - Specification

Dimensions.....17"L x 12.11"W x 3.228"H

Gasket Material HT-800

Medium Cellular Silicone

NEMA 4 rating

LCD Screen.....15.4" (16:10 Diagonal)

16.2 Million Colors

1280x800 Resolution

View Angle 70°x70°x70°x 70°

(Up, Down, Left, Right)

5-Wire resistive touch w/Stylus pen

White LED Backlight

(Min Life 50,000 Hrs)

Luminance Min. 300 cd/m²

Surface Treatment.....Glare/Anti-Reflection ≤1.5%

Hard Coating (3H)

Power Input12Vdc 2 amps

Motherboard.Freescall i.MX6 Dual Core 800mhz

1Gb of 512mhz DDR3 RAM Mem.

4Gb of eMMC Flash memory

1Gb Ethernet (100Mb/10Mb comp.)

1 Micro-SD Slots;

1 USB On-The-Go (OTG)

2 USB Host 2.0; Real Time Clock

(RTC) w/ Battery

LVDS for 15.4" LCD w/5-wire

resistive touch

3 RS485 communication ports

(max. baud rate 115k)

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