



MCS-MAGNUM-MLB

Description & Specifications



Part # MCS-MAGNUM-MLB

Description

The **MCS-MAGNUM-MLB** enclosure is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three seven-inch hinges for strength. A key lock is provided for security on the door while still giving easy access of the display and keypad.

The MCS-MAGNUM-MLB comes standard equipped with a Magnum micro controller board, a MCS-SI116-AO4, Keypad/LCD, 20 amp circuit breaker and a electrical outlet for plug-in power at the box.

The following warning lights and switches are included in the standard enclosure; MB-Alarm, MB-Warning, Run-SW, and Emer-SW. Additional options are available as shown below.

This box is intended for use in an environment protected from the weather.

Options

MCS-RS-485-EXTENDER
Cable for extending RS-485 port to front of control cabinet.



-232This adds RS-232 port on Keypad
MCS-RS-232-EXTENDERCable for extending RS-232 port to front of control cabinet (only available with -232 Keypad option)

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.

ENCLOSURE – Medium Large Box

Dimensions..... 22”w, 28.5”h,8.0”d
Mounting Holes..... Mounts with four pre drilled 15/32” 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

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

KEYPAD / LCD

Display.....128 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

-MB-WIRELESS-MODEM Cellular Modem with 1 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-RUN-LT#(1/2/3/4) Green run indicator
-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

Revision - 2017-05-04