



MCS-MAGNUM-LB

Description & Specifications



Description

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

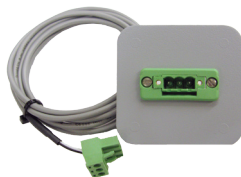
The following warning lights and switches are included in the standard enclosure; MB-Alarm, MB-Warning, Run-SW, and MB-Emer-SW.

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



-232 This adds RS-232 port on Keypad
MCS-RS-232-EXTENDER Cable 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 – Large Box

Dimensions of Large Box27”w x 34.75”h x 8.0”d
Mounting Holes.....Mounts with four pre-drilled 15/32” holes

Temperature Range for 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
Ethernet10/100 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

Options(con't)

-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 - 2017-05-25