



MCS-MAGNUM-SB

Description & Specifications



Part # **MCS-MAGNUM-SB**

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 – Small BOX

Dimensions..... 18.25" w X 19.5" h X 8" d
 Mounting Holes..... Mounts with four pre-drilled 9/32" 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

Microprocessor Zilog 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 Board Six 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 Port 1 @ 38,400 baud
 RS-485 Comm Port 1 @ 19,200 baud
 Ethernet..... 10/100 Mbps Ethernet
 Real Time Clock Battery backup
 Power Detection Automatic power fail reset

KEYPAD / LCD

Display 128 x 64 dot pixel STN monochrome graphics LCD with 2.8" diagonal viewing area
 Color White characters on a blue background (Reversible)
 Keypad Size 7.25" w x 8.50" h (6 mounting studs)
 Keypad Layout..... 9 keys (3 function keys)
 Connection 6 conductor shielded cable
 RS-485 Comm Port 1 @ 19,200 baud

-MB-WIRELESS-MODEM Cellular Modem with 1 yr subscription
 -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

Description

The **MCS-MAGNUM-SB** 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-SB comes standard equipped with a Magnum micro controller board, 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.



-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)

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