



The MCS-MAGNUM-MB Specifications & Description

Physical Characteristics

Medium Box Specifications

Dimensions	20.0"w, 24.0"h, 6.0"d
Mounting Holes	Mounts with four pre drilled 15/32" holes
Operating Temperature	-40°F to +158°F (-40°C to +70°C)
Storage Temperature	-40°F to +158°F (-40°C to +70°C)
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
RS-232 Comm Port.....	1 @ 19,200 baud
Ethernet	10/100 Mbps Ethernet
Real Time Clock.....	Battery backup
Power Detection.....	Automatic power fail reset

Keypad/LCD Specifications

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
Operating Temperature	-4°F to +158°F (-20°C to +70°C)
Storage Temperature	-22°F to +176°F (-30°C to +80°C)

Product Description

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

The MCS-MAGNUM-MB comes standard equipped with a Magnum micro controller board, Keypad/LCD, 10 amp circuit breaker and a electrical outlet for plug-in power at the box. Additional options are available as shown on the right. This box is intended for use in an environment protected from the weather.



Part # MCS-MAGNUM-MB

Options

-MB-MAGNUM-24	24vac input power option for Magnum micro controller board
-MB-RO8-(24/115/230)	8 relay output expansion board
-MB-SI16-(24/115/230)	16 sensor input expansion board
-MB-I/O-N-(24/115/230)	Expansion board with 8 relay outputs, 8 sensor inputs and 1 analog output
-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-MODEMMAG115	Modem 115vac
-MB-MODEMMAG230	Modem 230vac
-MB-24VOLT-(115/230)	115(230) to 24vac transformer
-MB-SE-IB1	Control board for 20 ton EXV
-MB-SE-IB3	Control board for 30 ton EXV
-MB-SE-IB6	Control board for 50+ ton EXV