



The MCS-MAGNUM-MLB Specifications & Description

Physical Characteristics

Medium Large Box Specifications

Dimensions	22" w x 26" h x 7" 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)
Current Draw	200mA @ 115VAC 100mA @ 230VAC
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)

15" Color Touch Screen Specifications

Dimension:	13.9" w x 11.0" h x 2.16" d
Mounting Cutout:	13.19" w x 10.32" h, secured by four mounting clips
Screen Viewing Size:	15 inch TFT screen, 64K color, 1024 x 768 pixel VGA screen resolution
Operating Temperature:	32°F to 122°F (0°C to 50°C)
Operating System:	Windows XP Embedded (Pre-loaded)
Power Supply:	Input 100-240 VAC 50/60HZ Output 15VDC to MCS-TOUCH-PC
Ethernet Port:	10/100 Base-T port.

Product 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 four-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, 15" color touch screen, 4 port Ethernet switch, 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-MLB

Options

-MB-MAGNUM-24	24vac input power option for Magnum micro controller board
-MB-RO10-(24/115/230)	10 relay output expansion board
-MB-SI16-AO4-(24/115/230)	16 sensor input expansion board
-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