



## The MCS-MAGNUM-SB Specifications & Description

### Physical Characteristics

#### Small Box Specifications

Dimensions ..... 16.0"w, 18.0"h, 6.0"d  
 Mounting Holes ..... Mounts with four pre-drilled  
 9/32" 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 ..... 12 inputs 0-5vdc (10-bit A/D)  
 Digital Inputs ..... 4 inputs 0 or 5vdc only  
 Relay Outputs ..... 10 outputs 6.3amps @ 230vac  
 Analog Outputs ..... 4 outputs 0-10vdc  
 Printed Circuit Board ..... Six layer with separate power  
 and ground planes  
 Input Power ..... 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-SB enclosure is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with two four-inch hinges for strength. A key lock is provided for security on the door while still allowing easy access to the keypad and display.

The MCS-MAGNUM-SB comes standard equipped with a Magnum micro controller board, Keypad/LCD, 10 amp circuit breaker and an 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-SB

#### Options

**-MB-MAGNUM-24**.....24vac input power option for  
 Magnum micro controller 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-ETHERNET-SW** .....Ethernet switch and power supply  
**-MB-MODEMMAG115** ....Modem 115vac  
**-MB-MODEMMAG230** ....Modem 230vac  
**-MB-24VOLT-(115/230)** ..115(230) to 24vac transformer