

# MCS-MAGNUM-SB-12 INDUSTRIAL CONTROL PANEL



Part # MCS-MAGNUM-SB-12

## **Description**

The MCS-MAGNUM-SB-12 Industrial Control Panel\* 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.

Critical safety components manufactured by MCS and installed in this panel are UL Recognized Components under UL File #169780 and are also ROHS compliant.

The MCS-MAGNUM-SB-12 comes standard equipped with a Magnum micro controller board, Keypad/LCD, and a 20 amp circuit breaker. There is also a electrical outlet for laptop plug-in power at the panel.

Power is supplied using a MCS-12V power supply.

**SHIELDWIRE-GROUNDING multi-terminal connectors** are included to eliminate stray electrical current, thereby helping to reduce line noise form the sensors to the controller.

Options are available for all MCS-MAGNUM Control Panels with Keypads or Touch Screens. These options are factory installed by MCS at time of purchase. Visit our website for options available.

# **Options**

MCS-RS-485-EXTENDER Cable for extending RS-485 port to front of control panel.



-232 .......This adds RS-232 port on Keypad MCS-RS-232-EXTENDER ..........Cable for extending RS-232 port to front of control panel (only available with -232 Keypad option)

## **Specifications**

Certification.....UL508A

#### **NEMA Rating - Type 1 Control Panel - 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.

#### **Industrial Control Panel\***

Dimensions	18.2"w x 24.75"h x 8"d
Mounting Holes	Mounts with four pre-drilled
•	9/32" holes
Rated Voltage (Standard)	120VAC or 230VAC
'Phase / Frequency	1 Phase / 60Hz
Full Load Current(approx)	40A at 120VAC or 20A at 240VAC
Short Circuit Current Rating	10kA

### **TEMPERATURE RANGE Control Panel/Keypad/LCD**

Operating Temp. of panel	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)

#### **MCS-MAGNUM Controller**

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)	12 vdc Regulated Power Supply
Minimum (Brown in)	9.44 vdc
Amp Draw (Loaded)	857.0 mA
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**

RETPAD/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
Packaging	
Weight	40 lhs(approx)

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