

# MCS-MAGNUM-LB-12 INDUSTRIAL CONTROL PANEL



# **Description**

The MCS-MAGNUM-LB-12 Industrial Control Panel is made of powder-coated aluminum for durability and longevity. A left hand swing door is mounted with three eight-inch hinges for strength. A key lock is provided for security on the door while still giving easy access of the display and keypad.

Part # MCS-MAGNUM-LB-12\*

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-LB-12 comes standard equipped with a Magnum micro controller board, a MCS-SI-Base, Keypad/LCD, 20A and 5 A Single-Pole Circuit Breaker.

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

Panel includes the following; 20A, and a 5A Single-Pole Circuit Breaker. A 5 port 10/100/1000 Ethernet Workgroup Switch Industrial rated, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch with guard and 3 Position Run/Stop Selector Switch.

There is also an electrical outlet for laptop plug-in power at the panel.

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

#### **OPTIONAL RS-485 EXTENDER**

MCS-RS-485-EXTENDER
Cable for extending RS-485 port to
front of control panel.
Factory installed at time of purchase.



## **Specifications**

Certification......UL508A - E511647

#### **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**

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
Dimensions of control panel	27"w x 39.75"h x 8.0"d
Mounting Holes	Mounts, 4 pre-drilled 15/32" holes

#### Temperature Range for Panel/Keypad/Lcd

Operating Temp. of control pan-	el4°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
Ethernet	.10/100 Mbps Ethernet
MCS-I/O Comm Port	. 1 @ 38,400 baud
RS-485 Comm Port	. 1 @ 19,200 baud
Real Time Clock	. Battery backup
Power Detection	. Automatic power fail reset

## **MCS-SI-BASE Expansion Board**

Sensor Inputs (SI)	16 inputs 0-5VDC (10-bit A/D)
Analog Outputs (AO)	4 outputs 0-10VDC
MCS-I/O Comm Port	1 @ 38,400 baud

#### 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	
Connection	
RS-485 Comm Port	

## **Packaging**

Weight	90 lbs (approx)
Box	29" x 10" x 37"

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