

# MCS-MAGNUM-LB-10.1-12 **INDUSTRIAL CONTROL PANEL**



# **Description**

The MCS-MAGNUM-LB-10.1-12 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. This panel is intended for use in an environment protected from the weather.

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-10.1 consists of a MCS-MAGNUM, MCS-S1-Base expansion board, and a Touchscreen 15.4" display. The MCS-TOUCH-10.1 is a new touchscreen interface designed to simplify user access with the MCS-MAGNUM utilizing **MCS-CONNECT** to provide both graphics and service mode access to technicians. Information and graphics on the MCS-TOUCH-10.1 are shown on a 10.1" high resolution (1280x800) LCD display with LED backlighting, which will guarantee longlife operation.

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 Ethernet Workgroup Switch Industrial rated, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch and 3 Position Run/Stop Selector Switch. There is also an electrical outlet for laptop plug-in power at the panel, and a Ground Bar for Sensor input shields.

Complementing the MCS-MAGNUM micro controller are a variety of MCS expansion boards that allow for system expansion to a maximum of 112 inputs and 80 outputs. Communication to these units occur at 38,400 baud over the Mcs-I/O Port which Is dedicated for this purpose.

## **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

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 34.75"h x 8.0"d Mounting Holes......Mounts, four pre-drilled 15/32" holes

#### **Temp. Range for Control Panel & Touch Screen**

Operating Temperature4°F to 158°F (-20°C to 70°C)	
Operating Humidity0-95% Non-Condensing	
Storage Temperature4°F to 158°F (-20°C to 70°C)	

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

	Zilog eZ80 Acclaim! @ 50 mhz
Sensor Inputs (SI)	12 inputs 0-5VDC (10-bit A/D)
Digital Inputs	4 inputs 0 or 5VDC only
Relay Outputs (RO)	10 outputs 6.3 amps @ 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)	9.44VDC
Amp Draw (Loaded)	
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

#### MCS-SI-BASE Expansion Board

Sensor Inputs (SI)	
MCS-I/O Comm Port	

#### **MCS-Touch 10.1 Touchscreen**

	10.1" Diagonal (Aspect Ratio 16:10)
	1280 x 800 Resolution
:	5-Wire resistive touch w/Stylus pen
Gasket	HT800 Cellular Silicone
	NEMA 4 IP66 rated
Surface Treatment	Glare/Anti-Reflection ≤1.5%
Operating Temperature	-4°F to 149°F (-20°C to +65°C)
Operating Humidity	0-95% Non-Condensing
Storage Temperature	-13°F to 158°F(-25°C to +70°C)
	Freescale i.MX6 Dual Core 800mhz
	2Gb of 512mhz DDR3 RAM memory
	16Gb of eMMC Flash memory
	10m/100m/1G Ethernet
	1 Micro-SD Slots
	2 USB Host 2.0
	Real Time Clock (RTC) w/ Battery
	3 RS485 communication ports
Packaging	
rachaying	

Weight ...... 90 lbs(approx) 

5580 Enterprise Pkwy., Fort Myers, FL 33905 Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com