

MCS-MAGNUM-MLB-10.1-12 INDUSTRIAL CONTROL PANEL



MCS-MAGNUM-MLB-10.1-12*

Description

The **MCS-MAGNUM-MLB-10.1-12** Industrial Control Panel is constructed with powder coated aluminum for durability and longevity. A left hand swing door is mounted with three eightinch 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.

The panel consists of a MCS-MAGNUM-N-12, MCS-TOUCH 10.1 touchscreen and MCS-SI-BASE expansion board.

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

The **MCS-TOUCH-10.1** is a 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 long-life operation. 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 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.

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

Packaging

Weight	60 lbs(approx)
Box	

Specifications

Certification.....UL508A - E511647

NEMA Rating - Type 1 Control Panel - IP20 Rating

Enclosures constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts and to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects.

Industrial Control Panel

Dimensions	.23.5"w x 31.15"h x 8"d
Mounting Holes	. Mounts with four pre drilled
C	15/32" 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
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Temp. Range for Control Panel & Touch Screen

Operating Temperature......-4°F to 158°F (-20°C to 70°C) Operating Humidity......0-95% Non-Condensing Storage Temperature......-4°F to 158°F (-20°C to 70°C)

MCS-MAGNUM Controller

	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)	
Printed Circuit Board	Six layer with separate power
Input Power (Standard)	12 vdc Regulated Power Supply
Minimum (Brown in)	9.44 vdc
Amp Draw (Loaded)	857.0 mA
	and ground planes
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)	16 inputs 0-5vdc (10-bit A/D)
Analog Outputs (AO)	
MCS-I/O Comm Port	.1 @ 38,400 baud

MCS-Touch 10.1 Touchscreen

LCD Screen	10.1" Diagonal (Aspect Ratio 16:10)
	1280 x 800 Resolution
	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)
Motherboard-Rev 4.0	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
Crossover Cable (orange) can be used for connecting to MCS-MAGNUM or to a Laptop
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