



MCS-MAGNUM-LB-12 INDUSTRIAL CONTROL PANEL



Part # MCS-MAGNUM-LB-12*

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.

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 from 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

Industrial Control Panel

Rated Voltage (Standard).....120VAC or 230VAC
Phase / Frequency1 Phase / 60Hz
Full Load Current(approx)40A at 120VAC or 20A at 240VAC-
Short Circuit Current Rating.....10kA
Dimensions of control panel27" w x 39.75" h x 8.0" d
Mounting HolesMounts, 4 pre-drilled 15/32" holes

Temperature Range for Panel/Keypad/Lcd

Operating Temp. of control 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 BoardSix 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 Port1 @ 38,400 baud
RS-485 Comm Port1 @ 19,200 baud
Real Time ClockBattery backup
Power DetectionAutomatic 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 Port1 @ 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 Size7.25" w x 8.50" h (6 mounting studs)
Keypad Layout.....9 keys (3 function keys)
Connection6 conductor shielded cable
RS-485 Comm Port.....1 @ 19,200 baud

Packaging

Weight90 lbs (approx)
Box29" x 10" x 37"

5580 Enterprise Pkwy., Fort Myers, FL 33905

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