



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; 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.

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

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 34.75" h x 8.0" d
Mounting Holes Mounts, 4 pre-drilled 15/32" holes

Temperature Range for Panel/Keypad/Lcd

Operating Temp. of control 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
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..... 9 keys (3 function keys)
Connection 6 conductor shielded cable
RS-485 Comm Port 1 @ 19,200 baud

Packaging

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

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