



MCS-MAGNUM-MLB-12 INDUSTRIAL CONTROL PANEL



Part # MCS-MAGNUM-MLB-12*

Description

The MCS-MAGNUM-MLB-12 Industrial Control Panel is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three seven-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-MLB-12 comes standard equipped with a Magnum micro controller board, a MCS-SI-BASE, Keypad/LCD, and a 20A 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.

This panel is intended for use in an environment protected from the weather.

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.

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 22”w, 28.5”h,8.0”d

Mounting Holes..... Mounts with four pre drilled
15/32” holes

TEMPERATURE RANGE Control Panel/Keypad/LCD

Operating Temp. of 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

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 rese

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 60 lbs(approx)

Box 24” x 10” x 30”

5580 Enterprise Pkwy., Fort Myers, FL 33905

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