



MCS-MAGNUM-LB-15.4-12

Description & Specifications



Part # MCS-MAGNUMLB-15.4-12

Description

The MCS-MAGNUM-LB-15.4-12 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.

The control panel consists of a MCS-MAGNUM-N-12, a MCS-TOUCH 15.4" touchscreen, and a MCS-SI-BASE expansion board.

The MCS-TOUCH-15.4 capacitive touchscreen interface designed to simplify user access with the MCS-Magnum and MicroMag utilizing MCS-Connect to provide both graphics and service mode access to technicians. Input method: Finger, Stylus or *Glove.

Highly accurate and does not require calibration - easy to clean glass surface. Works outdoors, bright screen, water resistant, exceptional Optics - 1280x800 resolution, sharp and vibrant images.

MCS-TOUCH-15.4 comes preloaded with the MCS-CONNECT program that allows you to view the 'unit's status', 'extended history', 'alerts', 'alarms', setpoints, and more, all in a user-friendly graphic format. The MCS-TOUCH-15.4-12 can connect up to 60 MCS controllers and supports RS485 or Ethernet networking. 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 from the sensors to the controller.

Specifications

Certification..... UL508A - E511647

NEMA Rating – Type 1 Control Panel

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

Dimensions of control panel ... 27" w x 39.75" h x 8.0" d
Mounting Holes..... four pre-drilled 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

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 Specification

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
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
Analog Outputs (AO) 4 outputs 0-10vdc
MCS-I/O Comm Port 1 @ 38,400 baud

MCS-TOUCH-15.4 - Capacitive Touchscreen

Dimensions..... 17"L x 12.11"W x 3.228"H
LCD Screen 15.4" (16:10 Diagonal)
Gasket..... BISCO HT-820-Firm Cellular Silicone
16.2 Million Colors
1280x800 Resolution
Soft Touch Capacitive Stylus pen
Power Input 12Vdc 2 amps

Crossover Cable (orange)..... can be used for connecting MCS Touchscreen direct to MCS-MAGNUM or to a Laptop

Packaging

Weight 88 lbs(approx.)
Box 29 x 10.5 x 42 (approx.)

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* The glove needs to have a conductive fabric or material to work with cap touchscreens.