



# MCS-MAGNUM-LB-15.4-12

## INDUSTRIAL CONTROL PANEL



Part # MCS-MAGNUM-LB-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.

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

MCS-TOUCH-15.4 is 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-15.4 are shown on a 15.4" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

Control 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, and a Ground Bar for Sensor input shields.

UL 508A certification provides the inspection authority and your customer evidence that the control panel complies with nationally recognized safety standards. These standards ensure public safety and provide assurances that the electrical control panel is compliant with national and local electrical codes.

### 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 with four pre-drilled  
15/32" holes

#### **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

#### **Touch Screen 15.4 - Specification**

Dimensions..... 17"L x 12.11"W x 3.228"H

NEMA 4 rating

LCD Screen ..... 15.4" (16:10 Diagonal)

16.2 Million Colors

1280x800 Resolution

Power Input 12Vdc 2 amps

Motherboard.-Rev 4.0 ..... Freescale i.MX6 Dual Core 800mhz

2Gb of 512mhz DDR3 RAM Mem.

16Gb of eMMC Flash memory

1Gb Ethernet (100Mb/10Mb comp.)

1 Micro-SD Slots;

1 USB On-The-Go (OTG)

2 USB Host 2.0; Real Time Clock

3 RS485 communication ports

(max. baud rate 115k)

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

#### **Packaging**

Weight ..... 90 lbs(approx)

Box ..... 29" x 10" x 37"

5580 Enterprise Pkwy., Fort Myers, FL 33905

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