# Micro CONTROL SYSTEMS

# MCS-MAGNUM-LB-10.1-12 INDUSTRIAL CONTROL PANEL



Part #
MCS-MAGNUM-LB-10.1-12\*

## **Description**

The MCS-MAGNUM-LB-10.1-12 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.

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-10.1 consists of a MCS-MAGNUM, MCS-S1-Base expansion board, and a Touchscreen 15.4" display. The MCS-TOUCH-10.1 is a new touchscreen interface 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-10.1 are shown on a 10.1" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

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 form the sensors to the controller.

Communication to these units occur at 38,400 baud over the Mcs-I/O Port which Is dedicated for this purpose.

### **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**

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 Controller**

#### **MCS-SI-BASE Expansion Board**

#### MCS-Touch 10.1 Touchscreen

LCD Screen ...... 10.1" Diagonal (Aspect Ratio 16:10) 1280 x 800 Resolution 5-Wire resistive touch w/Stylus pen NEMA 4 IP66 rated Operating Temperature.....-4°F to 149°F (-20°C to +65°C) Operating Humidity......0-95% Non-Condensing Storage Temperature......-13°F to 158°F(-25°C to +70°C) Motherboard-Rev 4.0 ..... Freescale i.MX6 Dual Core 800mhz 2Gb of 512mhz DDR3 RAM memory 16Gb of eMMC Flash memory 10m/100m/1G Ethernet 1 Micro-SD Slots 2 USB Host 2.0 Real Time Clock (RTC) w/ Battery 3 RS485 communication ports

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

#### **Packaging**

Weight	88 lbs(approx.)
Box	

5580 Enterprise Pkwy., Fort Myers, FL 33905 Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com