



MCS-MAGNUM-LB-10.1-12

INDUSTRIAL CONTROL PANEL



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.

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

Panel includes the following; 20A, and a 5A Single-Pole Circuit Breaker. A 5 port 10/100 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.

Complementing the MCS-MAGNUM micro controller are a variety of MCS expansion boards that allow for system expansion to a maximum of 112 inputs and 80 outputs. Communication to these units occur at 38,400 baud over the Mcs-I/O Port which is dedicated for this purpose.

Specifications

Certification..... **UL508A**

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, 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 Controller

Microprocessor Zilog eZ80 Acclaim! @ 50 mhz

Sensor Inputs (SI)..... 12 inputs 0-5VDC (10-bit A/D)

Digital Inputs..... 4 inputs 0 or 5VDC only

Relay Outputs (RO) 10 outputs 6.3 amps @ 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) 9.44VDC

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 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

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

Gasket HT800 Cellular Silicone

NEMA 4 IP66 rated

Surface Treatment Glare/Anti-Reflection ≤1.5%

Operating Temperature.....-20°C to +65°C Operating Temperature

Operating Humidity.....0-95% Non-Condensing

Storage Temperature -25°C to +70°C Storage Temperature

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

Packaging

Weight 90 lbs(approx)

Box 29" x 10" x 37"

5580 Enterprise Pkwy., Fort Myers, FL 33905

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