



MCS-MAGNUM-LB-7

Description & Specifications



Part # MCS-MAGNUM-LB-7

Description

The **MCS-MAGNUM-LB-7** enclosure 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 box is intended for use in an environment protected from the weather.

Critical safety components manufactured by MCS and installed in this enclosure are UL Recognized Components under UL File #169780 and are also ROHS compliant.

The MCS-MAGNUM-LB-7 consists of a **MCS-MAGNUM**, **MCS-SI-Base** along with a Touchscreen 7" display.

The **MCS-TOUCH-7** 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 TOUCH-7 are shown on a 7" high resolution (1280x800) LCD display with LED back-lighting, which will guarantee long-life operation.

Enclosure includes the following; 20A Single-Pole Circuit Breaker, 20A GFCI outlet, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch and 3 Position Run/Stop Selector Switch.

For information on the MCS-MAGNUM, see specifications on our web site.

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

NEMA Rating – Type 1 Enclosure - 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.

Enclosure – Large Box

Dimensions of Large Box 27" w x 34.75" h x 8.0" d
 Mounting Holes..... Mounts with four pre-drilled
 15/32" holes

Temp. Range for Enclosure & 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-12V-100W Power Supply

Input Voltage..... 88 VAC to 264 VAC
 Output Voltage..... 12VDC @ 8.5Amps
 Input Current..... 2.5A/115VAC 1.5A/230VAC

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
 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 7" Touchscreen

LCD Screen 7" 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

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5580 Enterprise Pkwy., Fort Myers, FL 33905

Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com