



MCS-MAGNUM-MLB-7

Description & Specifications



Part # MCS-MAGNUM-MLB-7

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 – Medium Large Box

Dimensions..... 22”w x 28.75”h x 8”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

MicroprocessorZilog 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

Description

The **MCS-MAGNUM-MBL-7** enclosure is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three seven-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-MLB-7 consists of a **MCS-MAGNUM-N**, a **MCS-SI116-A04**, a 20 amp circuit breaker, an electrical outlet for plug-in power at the box along with a Touchscreen 7” display.

The MCS-TOUCH-7 is a 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 backlighting, 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.

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.

Options are available for all MCS-MAGNUM Control Cabinets with Keypads or Touch Screens. These options are factory installed by MCS at time of purchase. Visit our website for options available.

Revision - 2019-08-05