



# MCS-MAGNUM-MLB-10.1-12

## Description & Specifications



Part #  
**MCS-MAGNUM-MLB-10.1-12**

### Description

The **MCS-MAGNUM-MLB-10.1-12** enclosure is constructed with 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.

The enclosure consists of a **MCS-MAGNUM-N-12**, **MCS-TOUCH 10.1** touchscreen and **MCS-SI-BASE** expansion board. Power is supplied using a **MCS-12V-100W** power supply.

The **MCS-TOUCH-10.1** 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 MCS- TOUCH-10.1 are shown on a 10.1" 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.

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

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.

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

### Specifications

#### **NEMA Rating – Type 1 Enclosure - IP20 Rating**

Enclosures constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts and to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects.

#### **Enclosure – Medium Large Box**

Dimensions.....22"w x 28.50"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**

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 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

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