



# MCS-MAGNUM-NEMA4-15.4-12

## Description & Specifications



Part # MCS-MAGNUM-NEMA4-15.4-12

### Description

The **MCS-MAGNUM-NEMA4-15.4-12** is a *custom built enclosure* made of powder coated aluminum for durability and longevity. It is a NEMA TYPE 4 rating. The interior left hand swing door is mounted with three four-inch hinges for strength. The enclosure is designed for areas which may be regularly hosed down or are in very wet or oily conditions. The enclosure provides protection from dust, dirt, oil and water.

**Standard MCS-MAGNUM-NEMA4-15.4-12 Enclosure** - includes a MCS-MAGNUM-N-12, a touchscreen 15.4" display, a MCS-SI-BASE, 20 amp circuit breaker, electrical outlet for plug-in power at the box, industrial 5 port Ethernet switch, 12vdc power supply, 5 amp circuit breaker and Terminal blocks.

The **MCS-TOUCH-15.4** capacitive touchscreen interface designed to simplify user access with the MCS-Magnum and MicroMag utilizing MCS-Connect to provide both graphics and service mode access to technicians. Input method: Finger, Stylus or \*Glove.

Highly accurate and does not require calibration - easy to clean glass surface. Works outdoors, bright screen, water resistant, exceptional Optics - 1280x800 resolution, sharp and vibrant images.

MCS-TOUCH-15.4 comes preloaded with the MCS-CONNECT program that allows you to view the 'unit's status', 'extended history', 'alerts', 'alarms', setpoints, and more, all in a user-friendly graphic format. The **MCS-TOUCH-15.4-12** can connect up to 60 MCS controllers and supports RS485 or Ethernet networking.

Communication to these units occur at 38,400 baud over the MCS-I/O port which is dedicated for this purpose.

SHIELDWIRE-GROUNDING multi-terminal connectors are included to eliminate stray electrical current, thereby helping to reduce line noise form the sensors to the controller.

### Specifications

#### NEMA Rating – Type 4 Enclosure

#### Industrial Control Panel

Dimensions of control panel .30"H x 24"W x 12"D  
Mounting Holes..... Mounts with four pre-drilled 15/32" holes

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

#### 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 Specification

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

Input Power (Standard) ..... 12 vdc Regulated Power Supply  
Minimum (Brown in) ..... 9.44 vdc  
Amp Draw (Loaded) ..... 857.0 mA  
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/EXT Expansion Board

Sensor Inputs (SI)..... 48 inputs 0-5vdc (2 Base/1Ext)  
Analog Outputs (AO) ..... 12 outputs 0-10vdc  
MCS-I/O Comm Port ..... 1 @ 38,400 baud

#### MCS-TOUCH-15.4 - Capacitive Touchscreen

Dimensions..... 17"L x 12.11"W x 3.228"H  
LCD Screen ..... 15.4" (16:10 Diagonal)  
Gasket..... BISCO HT-820-Firm Cellular Silicone  
16.2 Million Colors  
1280x800 Resolution  
Soft Touch Capacitive Stylus pen  
Power Input ..... 12Vdc 2 amps  
Touchscreen Surface..... UV Degradation Protection

#### Packaging

Weight ..... 90 lbs(approx)  
Box ..... 29" x 10" x 37"

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\* The glove needs to have a conductive fabric or material to work with cap touchscreens.