



# MCS-MAGNUM-NEMA4-15.4-12

## INDUSTRIAL CONTROL PANEL



Part # **MCS-MAGNUM-NEMA4-15.4-12\***

### Description

The **MCS-MAGNUM-NEMA4-15.4-12 Industrial Control Panel** is a **custom built enclosure** made of powder coated aluminum for durability and longevity. The interior left hand swing door is mounted with three four-inch hinges for strength. The control panel 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.

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

**Standard MCS-MAGNUM-NEMA4-15.4-12 Industrial Control Panel** - includes a MCS-MAGNUM-N-12, a touchscreen 15.4" display, electrical outlet for plug-in power at the panel, industrial 8 port Ethernet switch, 12vdc power supply, 20 amp circuit breaker and Terminal blocks.

The **MCS-TOUCH-15.4** 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-15.4 are shown on a 15.4" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

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 Industrial Control Panels with Keypads or Touch Screens. These options are factory installed by MCS at time of purchase. Visit our web-site for options available.

### Specifications

**Certification**..... UL508A

#### **NEMA Rating – Type 4 Control Panel – IP66 Rating**

Indoor or Outdoor, provides a degree of protection against falling rain, splashing water and hose directed water, undamaged by formation of ice on the control panel.

#### **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..... 24" w x 30" h x 12" d

Mounting Holes..... 4 external wall-mount brackets

#### **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..... -22°F to 185°F (-30°C to 85°C)

#### **Controller 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

Input Power to Boards ..... 12VDC

MCS-I/O Comm Port ..... 1 @ 38,400 baud

RS-485 Comm Port ..... 1 @ 19,200 baud

Ethernet..... 10/100 Mbps Ethernet-8 port

Real Time Clock ..... Battery backup

Power Detection ..... Automatic power fail reset

#### **Touch Screen 15.4 - Specification**

Dimensions..... 17" L x 12.11" W x 3.228" H

NEMA 4 rating

LCD Screen..... 15.4" (16:10 Diagonal)

16.2 Million Colors

1280x800 Resolution

Power Input ..... 12Vdc 2 amps

Motherboard.-Rev 4.0 ..... Freescale i.MX6 Dual Core 800mhz

2Gb of 512mhz DDR3 RAM Mem.

16Gb of eMMC Flash memory

1Gb Ethernet (100Mb/10Mb comp.)

1 Micro-SD Slots;

1 USB On-The-Go (OTG)

2 USB Host 2.0; Real Time Clock

3 RS485 communication ports

(max. baud rate 115k)

LVDS for 15.4" LCD w/5-wire

resistive touch

3 RS485 communication ports

(max. baud rate 115k)

Crossover Cable (orange) ..... can be used for connecting MCS Touchscreen direct to MCS-MAGNUM or to a Laptop

#### **Packaging**

Weight ..... 60 lbs(approx)

Box ..... 24" x 10" x 30"

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