



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 website 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 wi/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"

5580 Enterprise Pkwy., Fort Myers, FL 33905

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