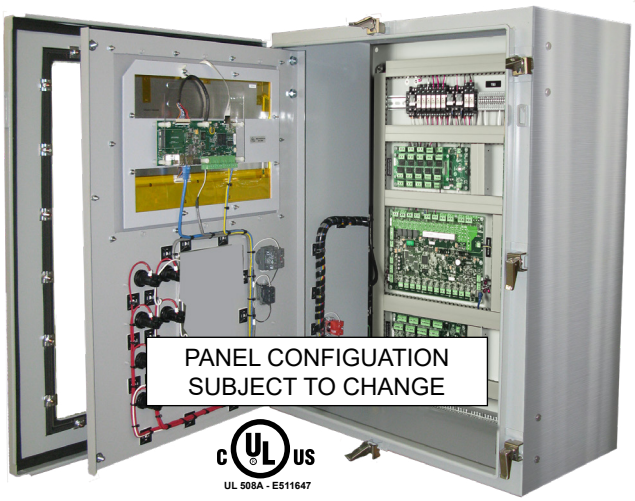
MCS-CENTRIFUGAL-NEMA4-12-SS
INDUSTRIAL CONTROL PANEL



Part # **MCS-CENTRIFUGAL-NEMA4-12-SS***

Description

The **MCS-CENTRIFUGAL-NEMA4-12-SS Industrial Control Panel** is made of Stainless Steel type 316 for durability and longevity. A left hand swing door is mounted with three eight-inch hinges for strength. A 25.5"H x 17.5"W x 0.31"D NEMA 4 stainless steel window kit is mounted which provides a degree of protection against falling rain, splashing water and hose directed water, undamaged by formation of ice on the panel.

A key lock is provided for security on the door while still giving easy access of the display. This panel is intended for use in an environment protected from the weather.

The control panel consists of a **MCS-MAGNUM-N-12, MCS-TOUCH 15.4"** touchscreen, **MCS-SI-BASE(2) with MCS-SI-EXT(1), MCS-RO-BASE(1) with MCS-RO-EXT(1)** expansion boards.

Power is supplied using a MCS-12V power supply.

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

Control panel includes the following; 20A, 16A and a 5A Single-Pole Circuit Breaker. A 5 port 10/100/1000 Mbps Ethernet Workgroup Switch Industrial rated, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch and 3 Position Run/Stop Selector Switch. There is also an electrical outlet for laptop plug-in power at the panel, and a Ground Bar for Sensor input shields.

UL 508A certification provides the inspection authority and your customer evidence that the control panel complies with nationally recognized safety standards. These standards ensure public safety and provide assurances that the electrical control panel is compliant with national and local electrical codes.

Specifications

Certification..... UL508A - E511647

NEMA Rating – Type 4 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 panel.

Industrial Control Panel

Dimensions of control panel . 36"h x 30"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 Boards

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-RO-BASE/EXT Expansion Boards

Relay Outputs (RO)..... 20 outputs 6.3amps @ 230vac
MCS-I/O Comm Port ..... 1 @ 38,400 baud

Touch Screen 15.4 - Specification

Dimensions..... 17"L x 12.11"W x 3.228"H
Gasket Material HT-800 Medium Cellular Silicone
NEMA 4 rating
LCD Screen..... 15.4" (16:10 Diagonal)
16.2 Million Colors
1280x800 Resolution
Power Input ..... 12Vdc 2 amps

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

Packaging

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

5580 Enterprise Pkwy., Fort Myers, FL 33905
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* Photo shown is an example of an Industrial Control Panel; some optional equipment may be shown.

Revision - 2023-01-23