



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 industrial 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.

The Control Panel is supplied with a 12V and 24V power supplies.

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.

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 with guard and 3 Position Run/Stop Selector Switch.

There is also an electrical outlet for laptop plug-in power at the panel . SHIELDWIRE-GROUNDING multi-terminal connectors (11) are included to eliminate stray electrical current, thereby helping to reduce line noise from the sensors to the controller.

Specifications

Certification..... **UL508A - E511647**

NEMA Rating – Type 4 Panel IP66

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

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

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

Packaging

Weight 90 lbs (approx)
Box 42"h x 39"w x 14"d (approx)

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* Photo shown is an example of an Industrial Control Panel; some optional equipment may be shown.

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