



# 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**

#### **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)

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.

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