

# MCS-NITROMAG-CENTRIFUGAL-NEMA4 INDUSTRIAL CONTROL PANEL

(MCS-NITROMAG is pending acceptance by UL as a Recognized Component)





Part # MCS-NITROMAG- CENTRIFUGAL-NEMA4

## **Description**

The MCS-NITROMAG-CENTRIFUGAL-NEMA4 Industrial Control Panel is made of powder coated steel for durability and longevity. A 36"H x 30"W x 12"D NEMA 4 powered coated gray 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 left-hand swing door with dual hinges ensures strength, while the Fast Opener Clamp Assembly provides quick, secure access no tools or keys required.

The industrial control panel consists of a MCS-NITROMAG-N, MCS-IO-BASE, MCS-IO-EXT, 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 capacitive touchscreen interface designed to simplify user access with the MCS-NitroMag controller 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 are included to eliminate stray electrical current, thereby helping to reduce line noise form the sensors to the controller.

### **Specifications**

Certification......UL508A - E511647

#### **NEMA Rating - Type 4 Control 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

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

16.2 Million Colors

1280x800 Resolution

View Angle 70°U, 70°D, 70°L, 70°R

Capacitive Stylus pen

White LED Backlight (Min Life 50,000 Hrs) Luminance Min. 350 Min. 450 Typical

#### Controller

INPUT	MINIMUM	NOMINAL	MAXIMUM
VOLTAGE	10	12	12.5
AMPS			2

Flash Memory	16 GB EMMC
RAM	2 GB DDR3
MCS-I/O Comm Port.	1 @ 38,400 baud
RS-485 Ports	2 @ go up to 115200 baud rate
Ethernet	10 Mbps/100Mbps/1Gbps
HDMI	2 HDMI 2.0 ports-Standard and Micro
WiFi	2.4 GHz, 5.0 GHz 8.02 b/g/n/ac wireless
USB	2 USB type B 2.0 ports 480Mbps signalling
Protocols	BACnet IP, BACnet MSTP, Modbus IP,
Modbus RTU Slave,	Modbus RTU Master (BTL certification pending)

Real Time Clock ..... Battery backup(Type BR2032)

Power Detection ...... Automatic power fail reset

#### **Power Supply - Specification**

**12vdc power supply**......85vac ~ 264vac AC frequency range.......47 ~ 63Hz / 7.5A / 90W

24vdc power supply......85vac ~ 264vac

AC frequency range......47 ~ 63Hz / 4A / 96W

 Packaging

 Weight
 90 lbs(approx)

 Box
 29" x 10" x 37"

## 5580 Enterprise Pkwy., Fort Myers, FL 33905 Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com

<sup>\*</sup> Photo shown is an example of an Industrial Control Panel; some optional equipment may be shown.

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