



MCS-NITROMAG-LB-15.4

Description & Specifications

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



Part # MCS-NITROMAG-LB-15.4

Description

The MCS-NITROMAG-LB-15.4 Industrial Control Panel is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three eight-inch hinges for strength. 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.

Critical safety components manufactured by MCS and installed in this panel are UL Recognized Components under UL File #169780 and are also ROHS compliant.

The MCS-NITROMAG-LB comes standard equipped with a MCS-NITROMAG micro controller board, a MCS-IO-Base, and a MCS-IO-EXT boards. Additional MCS RO and SI boards can be added if required.

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

Panel includes the following; 20A, and a 5A Single-Pole Circuit Breaker, 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 from the sensors to the controller.

Packaging

Weight 88 lbs(approx.)

Box 29 x 10.5 x 42 (approx.)

Specifications

NEMA Rating – Type 2 IP30 Control Panel

Enclosure is intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment and is not protected from liquids.

Industrial Control Panel

Dimensions of control panel ... 27" w x 39.75" h x 8.0" d

Mounting Holes..... 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

Touchscreen Surface..... UV Degradation Protection

Operating Temperature..... -22°F to 176°F (-30°C to +80°C)

Operating Humidity..... 90 %RH (Non Condensing)

Storage Temperature..... -22°F to 176°F (-30°C to +80°C)

Controller

Microprocessor Broadcom BCM2711 Quad core

Cortex (ARMv8) 64-bit SoC @ 1.5Ghz

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..... 2.4GHz, 5.0GHz 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

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