



MCS-NITROMAG-MLB-15.4 INDUSTRIAL CONTROL PANEL



Part #
MCS-NITROMAG-MLB-15.4*

Description

The **MCS-NITROMAG-MLB-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.

The **MCS-NITROMAG-MLB-15.4** is a control system containing a Capacitive Touchscreen, MCS-NITROMAG Controller, MCS-IO-BASE, MCS-IO-EXT. It includes a processor, memory, eMMC Flash, and supporting power circuitry.

Panel includes the following; 20A, and a 5A Single-Pole Circuit Breaker, a 5 port 10/100/1000 Ethernet Workgroup Switch Industrial rated, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch and HAND/OFF/AUTO selector Switch.

The MCS-NITROMAG controller comes with a built-in WiFi interface for Ethernet connectivity, and an onboard WiFi antenna connection mounted on the front of the touchscreen.

It features various connections ports for:

- 2 HDMI ports (1 Standard and 1 Micro port)
- 12vdc & 24vdc power input connections
- Ethernet port (10Mbps/100Mbps/1 GHz)
- MCS-IO port for communicating with expansion boards

Includes a MODBUS interface which enables it to act as a Modbus Master using the Modbus RTU protocol, allowing communication with Modbus slave devices for parameter access. Power is supplied using a MCS-12V-90W power supply.

There is also an electrical outlet for laptop plug-in power at the panel.

Packaging

Weight60 lbs(approx)
Box24" x 10" x 30"

Specifications

NEMA Rating – Type 2 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..... 23.5" w x 32.65" h x 8" 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
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..... 10Mbps/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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* 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.