

MCS-NITROMAG-MLB INDUSTRIAL CONTROL PANEL



Part # MCS-NITROMAG-MLB*

Description

The **MCS-NITROMAG-MLB Industrial Control Panel** is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three seven-inch hinges for strength. A key lock is provided for security on the door while still giving easy access of the display and keypad.

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-MLB comes standard equipped with a MCS-NITROMAG micro controller board, a MCS-IO-BASE, MCS-IO-EXT, Keypad LCD, a 20A and 5A circuit breakers.

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

Panel includes the following; Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch and 3 Position Run/Stop Selector Switch.

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

This panel is intended for use in an environment protected from the weather.

SHIELDWIRE-GROUNDING multi-terminal connectors are included to eliminate stray electrical current, thereby helping to reduce line noise form the sensors to the controller.

<u>Packaging</u>

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

Specifications

<u>NEMA Rating – Type 1 Control Panel</u> 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

TEMPERATURE RANGE Control Panel/Keypad/LCD

Kaunad	
Storage Temp	22°F to +185°F (-30°C to + 85°C)
Operating Humidity	0-95% Non-Condensing
Operating Temp. of pane	I4°F to +158°F (-20°C to + 70°C)

<u>Keypad</u>

Dimensions	.5.26"w x 8.50"h x 1.32"d
(133.6 mm x 215.9 mm)	x 33.62mm
Display	.128 x 64 dot pixel STN monochrome graphics LCD with 2.8" diagonal viewing area
Color	White characters on a blue background (Reversible)
Keypad Size	. 5.26"w x 8.50"h (8 mounting studs)
Keypad Layout Operating Temperature	.9 keys (3 function keys) 4°F to +185°F (-20°C to +85°C)
Operating Humidity	0-95% Non-Condensing

Controller

MicroprocessorBroadcom BCM2711 quad core

Cortex (ARMv8) 64-bit SoC @ 1.5GHz

Flash Memory 16 GB EMMC

INPUT	MINIMUM	NOMINAL	MAXIMUM		
VOLTAGE	10	12	12.5		
AMPS			0.5		
RAM	2 (GB DDR3			
MCS-I/O Comm	Port 1 (@ 38,400 baud			
RS-485 Ports	2 (@ go up to 1152	00 baud rate		
Ethernet	10 Mbps/100Mbps/1Gbps				
HDMI					
WiFi	2.4	4GHz, 5.0GHz 8.	02 b/g/n/ac wireless		
USB		JSB type B 2.0 po	rts 480Mbps signalli		
Protocols	B/	ACnet IP, BACnet	MSTP, Modbus IP,		
Modbus RTU (BTL certificat	Slave, Modbu ion pending)	s RTU Master			
Real Time Clock	Ва	attery backup(Typ	be BR2032)		

Power DetectionAutomatic power fail reset

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

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