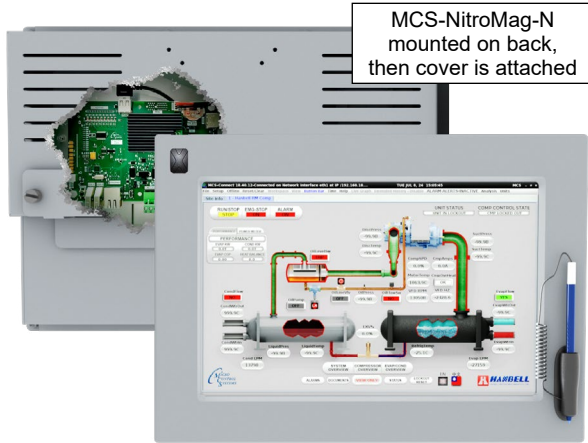




# MCS-NitroMag-15.4

## Description & Specifications



Part # MCS-NitroMag-15.4

### Description

The **MCS-NitroMag-15.4** is a control system containing a Capacitive Touchscreen, and a MCS-NitroMag-N controller. It includes a processor, memory, eMMC Flash, and supporting power circuitry. The Broadcom quad-core processor on the MCS-NitroMag-N delivers a blazing speed of 1.5GHz.

The MCS-NitroMag-N controller connects with MCS Expansion boards and Extension boards, allowing for a maximum of 144 SI inputs, 90 RO outputs, and 36 AO outputs.

The Capacitive touchscreen interface designed to simplify user access with the MCS Expansion Boards and utilizing MCS-Connect to provide both graphics and service mode access to technicians. 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.

MCS-NitroMag-15.4 comes pre loaded with the MCS-CONNECT program that allows you to view the 'unit's status', 'extended history', 'alerts', 'alarms', setpoints, and more, all in a user-friendly graphic format.

The MCS-NitroMag-15.4 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)
- WiFi antenna connection
- 12vdc power input connection
- Ethernet port (10Mbps/100Mbps/1GHz)
- 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.

### Specifications

Dimensions ..... 17"L x 12.11"W x 3.228"H  
432mm L x 308mm W x 82mm H

#### Mounting

Door Mount ..... Template included

10 mount studs thru customers enclosure.

MS4745 silicone gasket

NEMA 4 IP66 rated

Indoor or outdoor (Mounted in Nema4 Enclosure)

VESA Mount ..... 75 x 75 or 100 x 100 mm (indoor only)

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 coming soon)

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

Power Detection ..... Automatic power fail reset

### Packaging

7ft CAT 5e Crossover Patch Cord, Orange



Ship Weight ..... 2.00 lb (approx)

Box Dimensions ..... 20-1/8" x 15-1/8" x 6-1/2" (approx)

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