Introducing...
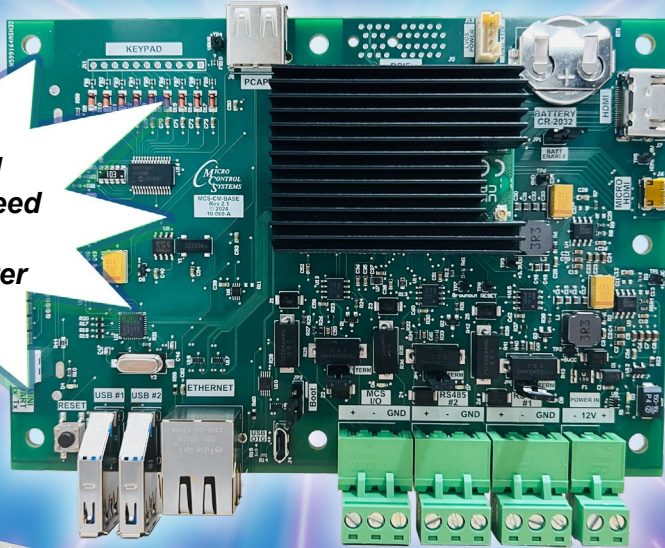
MCS-NitroMag-N

MCS-NitroMag - Microprocessor @ 1.5 GHz

The NEW MCS-NitroMag-N built for blazing speed features WIFi Modbus RTU Master

New Generation of MCS-MAGNUM "Smaller Footprint"

MCS-KEYPAD OEM

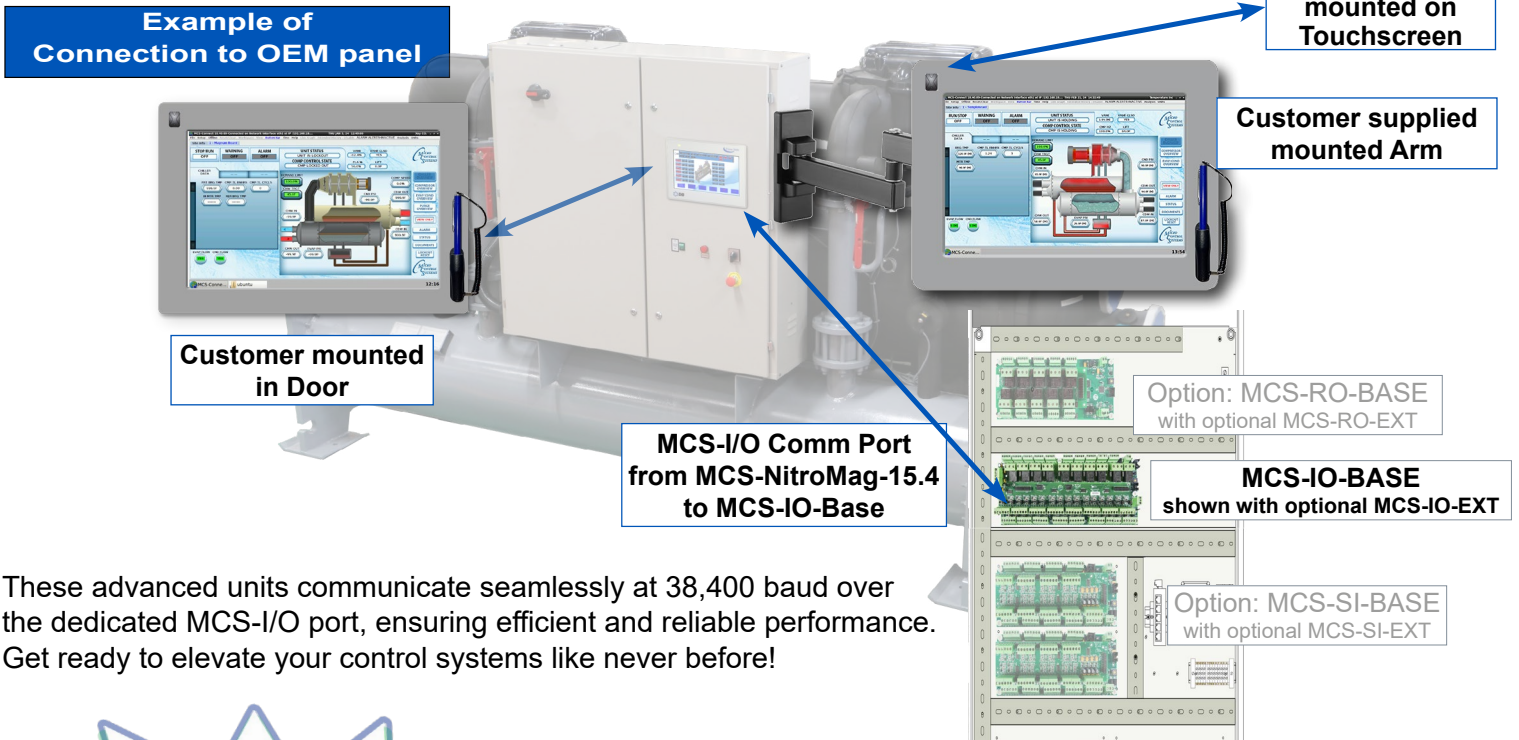**MCS-NitroMag-15.4**

MCS-NitroMag-N Features

- Maximum of 144 SI inputs, 90 RO outputs, and 36 AO outputs. (Expansion boards required).

- Built in WiFi - 2.4 GHz, 5.0 GHz.

- 2 HDMI ports (1 Standard & 1 Micro).

- Two user defined RS-485 Ports up to 115200 baud rate.

- Ethernet -10 Mbps/100 Mbps/1Gbps.

- Modbus RTU Master - Supports up to 10 Modbus devices e.g., VFD's KW Meter, Compressors. (MCS-Modbus I/O no longer required).

- MCS-BMS Gateway no longer required (except Lontalk and N2).

- Supports BACnet IP, BACnet MSTP, Modbus IP, Modbus RTU slave.

- NEMA4/IP66 Keypad or Touchscreen available.

MICRO CONTROL SYSTEMS

5580 Enterprise Parkway / Fort Myers, Florida 33905
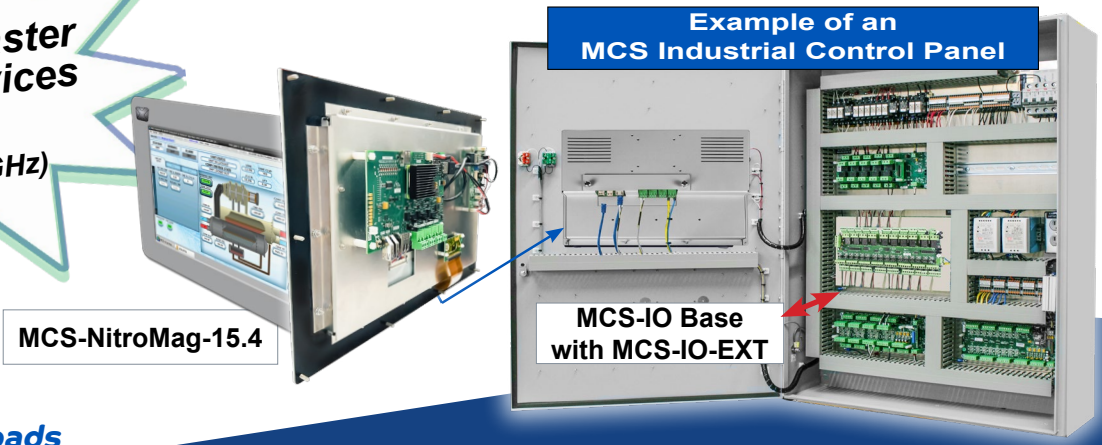Phone: 239-694-0089 / www.mcscontrols.com

MCS-NitroMag-N

Introducing the latest additions to our product lineup -
MCS-NitroMag-N controller, MCS-NitroMag-15.4, MCS-NitroMag-OEM,
MCS-NitroMag-DOOR and MCS-NitroMag-Panel
connecting with the MCS-IO-BASE, MCS-IO-EXT, MCS-RO-BASE, MCS-RO-EXT,
MCS-SI-BASE, and MCS-SI-EXT expansion boards.

WiFi Antenna mounted on Touchscreen

Example of Connection to OEM panel

Customer supplied mounted Arm

Customer mounted in Door

MCS-I/O Comm Port from MCS-NitroMag-15.4 to MCS-IO-Base

Option: MCS-RO-BASE with optional MCS-RO-EXT

MCS-IO-BASE shown with optional MCS-IO-EXT

These advanced units communicate seamlessly at 38,400 baud over the dedicated MCS-I/O port, ensuring efficient and reliable performance. Get ready to elevate your control systems like never before!

Option: MCS-SI-BASE with optional MCS-SI-EXT

Built-in
- **Modbus Master up to 10 devices**
- **WiFi**
(2.4GHz, 5.0GHz)

Example of an MCS Industrial Control Panel

MCS-NitroMag-15.4

MCS-IO Base with MCS-IO-EXT

Also available - Keypads

MCS-NitroMag-OEM

MCS-NitroMag-DOOR

MCS-NitroMag-PANEL

MCS-NitroMag-DOOR-NEMA4

MCS Hardware Configurations Compared

FEATURES	MCS-NitroMag-N	MCS-MAGNUM-N
PROCESSOR SPEED	✔ @1.5 GHz	✘ @50MHz
INPUTS & OUTPUTS (TOTAL NUMBER SUPPORTED)	✔ 144 SI INPUTS 90 RO OUTPUTS 36 AO OUTPUTS	✘ 112 SI INPUTS 80 RO OUTPUTS 28 SO OUTPUT
WiFi	✔ Built in support	✘
HDMI PORTS	✔ Built in support (2) ports	✘
USB PORTS	✔ (2) ports	✘
RS485 PORTS	✔ (2) ports	✘ (1) port
ETHERNET	✔ 10 Mbps 100 Mbps 1 Gbps	✘ 10/100 Mbps
MODBUS MASTER	✔ Built in support up to (10) Devices	✘ Requires (1) MCS-Modbus-I/O for each Device(slave)
BMS NETWORK CONNECTIVITY	✔ *Built in support	✘ Requires MCS-BMS-GATEWAY
FLASH MEMORY	✔ 16 GB EMMC	✘ 8 MB Flash
RAM (Random access memory)	✔ 2 GB DDR3	✘ 2MB Static Ram

✱MCS-NitroMag-N - Modbus RTU Master
  Protocols - BACnet IP, BACnet MSTP, Modbus IP, Modbus RTU Slave(N2 coming soon)
  (LonTalk requires MCS-BMS-GATEWAY,)

30TH ANNIVERSARY

March 1994 ~ March 2024

Leading manufacturer of products that excel in:
Efficiency, Reliability, Serviceability, and Innovation
for the HVAC/R Industry

Comprehensive product range encompassing Controls, Compressors, VFD, EXVS, Heat Exchangers, and Sensors

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- Customer Focused Collaborative Credible
- One stop solution for control of all different types and brands of units
- Superior service, delivery, and unrivaled technical expertise

Always a path to upgrade and never obsolete!

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