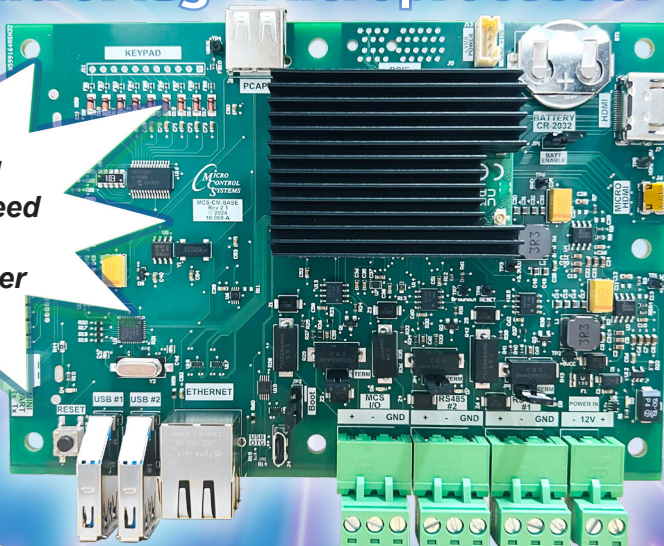


UL recognized product¹

MCS-NitroMag-N

MCS-NitroMag - Microprocessor @ 1.5GHz

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



**New
Generation of
MCS-MAGNUM
"Smaller
Footprint"**



MCS-NITROMAG-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 -10Mbps/100Mbps/1Gbps.
- Modbus RTU Master - Supports up to 20 Modbus devices e.g., VFD's KW Meter, Compressors.
- Native BACnet IP, BACnet MSTP, Modbus IP, Modbus RTU slave
- NEMA4/IP66 Keypad or Touchscreen available.

¹UL 60730-1, Automatic Electrical Controls - Part 1: General Requirements, Edition 5, Revision Date 10/18/2021

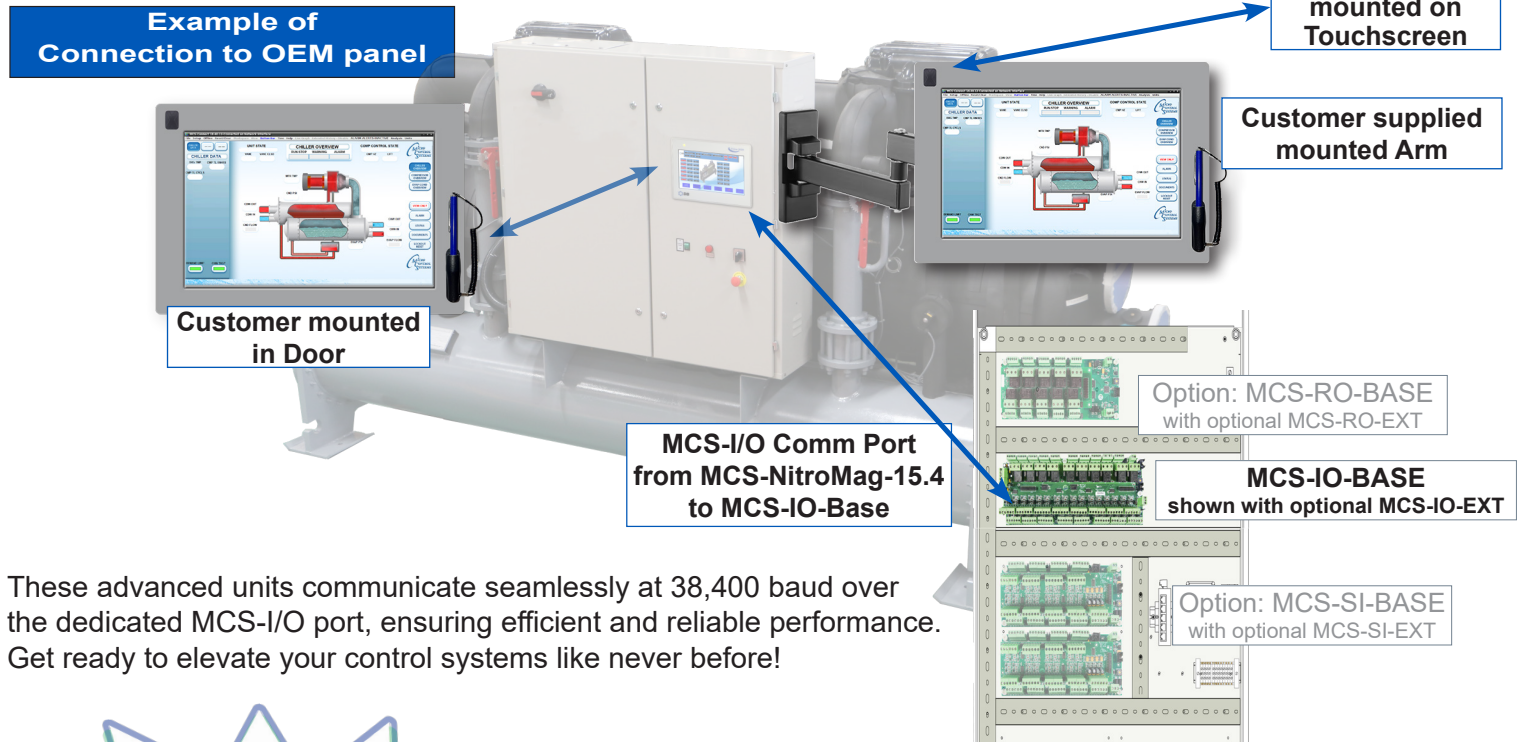
CAN/CSA E60730-2-9, Automatic Electrical Controls - Part 2-9: Particular Requirements for Temperature Sensing Controls, Edition 4, AMD 2, Revision Date 02/2024

UL 60730-2-9, Automatic Electrical Controls - Part 2-9: Particular Requirements for Temperature Sensing Controls, Edition 4, Revision Date 08/05/2021

CSA E60730-1, Automatic electrical controls - Part 1: General requirements, Edition 5, AMD 2, Revision Date 10/2021

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.**



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

MCS-NitroMag-15.4

Example of an MCS Industrial Control Panel

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 (20) 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,)



March 1994 ~ March 2025



***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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