More effective - Smaller footprint "Producing Results - Saving costs"

MCS +12 System

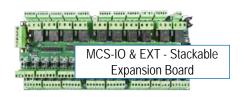




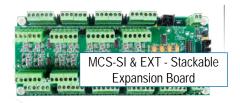




Stackable Expansion Boards Reduce Footprint Eliminate Power Transformer









MCS-MAGNUM +12

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Features . . .

The MCS-MAGNUM +12 is an expandable system

Start with the MCS-MAGNUM +12 Controller

- Add an MCS-12V Power Supply to power the system.
- Uses standard 115/230VAC to 12VDC power supply.
- Available with LCD/Keypad or Touch Screen.
- Add Stackable Expansion boards for more Analog outputs, Sensor inputs and Relay outputs.
- No power transformer on the board means smaller and lighter boards.
- Backward compatible firmware version 7 to current version 17.
- Backward compatible software, MCS-CONFIG and MCS-CONNECT.



MCS-MAGNUM +12 LCD DISPLAYS





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MCS-MAGNUM-PANL-12



MCS-MAGNUM-DOOR-12 also available MCS-MAGNUM-DOOR-NEMA4 -WATERPROOF



MCS-MAGNUM-OEM-12



MCS-MAGNUM-10.1-12



MCS-MAGNUM-15.4-12

Features . .

- Interface designed to simplify user access with the MCS-MAGNUM +12.
- 1280x800 LCD display with LED back-lighting.
- Preloaded with MCS-CONNECT.
- Save ALARM ALERT DATA, EXTENDED HISTORY DATA to USB stick.
- NEMA 4 rating if installed in a NEMA4 enclosure
- 12 volt power supply



MCS- Power Supply

88 VAC to 264 VAC Ac/Dc Enclosed Switching Power Supply Size: 2.76" x 3.54" x 2.14 (W*H*D) (70*90*54.5mm) 12Volts @ 7.5Amps

+12 system is less costly to build



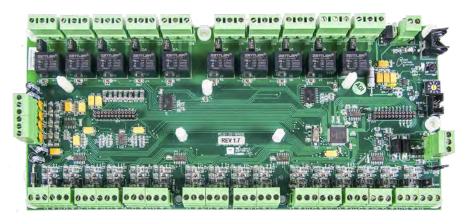
MCS-MAGNUM +12 Stackable Expansion Boards

Doubles your Inputs and Outputs in the same footprint



MCS-IO-BASE AND MCS-IO-EXT





Compatible with MCS-MAGNUM and MicroMag (MicroMag V18 Firmware)

- No power transformer on the board means smaller and lighter boards.
- Backward compatible MAGNUM firmware version 7 to current version 17.
- Backward compatible software, MCS-CONFIG and MCS-CONNECT.

MCS-IO-BASE

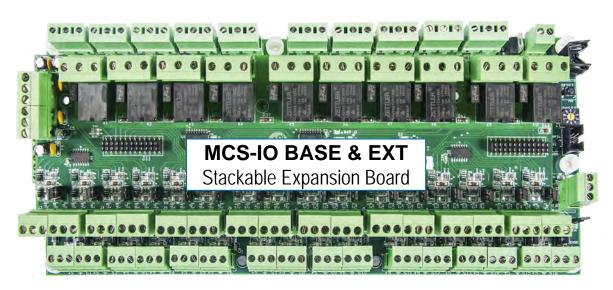
Sensor Inputs	.16 inputs 0-5vdc
Analog Outputs	.4 outputs 0-10VDC
Relay Outputs	.10 outputs 5amps @ 230VAC
Input Power (Standard)	.12VDC Regulated power supply
MCS-I/O Comm Port	.1 @ 38,400 Baud
Printed Circuit Board - Four power & ground planes	layer with separate

MCS-IO-EXT

Mounts on top of the MCS-IO-BASE by 5 nylon standoffs and 2 stacker headers (included on MCS-IO-BASE)

Sensor Inputs	16 inputs 0-5vdc
Analog Outputs	4 outputs 0-10VDC
Relay Outputs	10 outputs
	5amps @ 230VAC

Input Power (Standard)
Powered by MCS-IO-BASE





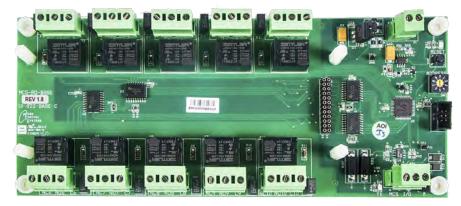
MCS-MAGNUM +12 Stackable Expansion Boards

Doubles your Inputs and Outputs in the same footprint



MCS-RO-BASE AND MCS-RO-EXT







Compatible with MCS-MAGNUM and MicroMag (MicroMag V18 Firmware)

- No power transformer on the board means smaller and lighter boards.
- Backward compatible MAGNUM firmware version 7 to current version 17.
- Backward compatible software, MCS-CONFIG and MCS-CONNECT.

MCS-RO-BASE

Relay Outputs......10 outputs

(5amps @ 230VAC)

Input Power (Standard) 12VDC Regulated

power supply

MCS-I/O Comm Port 1 @ 38,400 Baud

Printed Circuit Board - Four layer with separate power & ground planes

MCS-RO-EXT

Mounts on top of the MCS-RO-BASE by 5 nylon standoffs and 2 stacker headers (included on MCS-RO-BASE)

Relay Outputs...... 10 inputs

(5 amps @ 230VAC)

Input Power (Standard)
Powered by MCS-RO-BASE

Printed Circuit Board - Four layer with separate power & ground planes





MCS-MAGNUM +12 Stackable Expansion Boards

Doubles your Inputs and Outputs in the same footprint

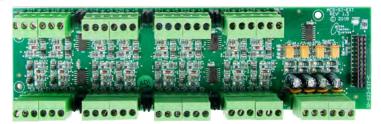


MCS-SI-BASE AND MCS-SI-EXT



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Compatible with MCS-MAGNUM and MicroMag (MicroMag V18 Firmware)

- No power transformer on the board means smaller and lighter boards.
- Backward compatible MAGNUM firmware version 7 to current version 17.
- Backward compatible software, MCS-CONFIG and MCS-CONNECT.

MCS-SI-BASE

Sensor Inputs	16 inputs 0-5vdc
Analog Outputs	4 outputs 0-10VDC
Relay Outputs	10 outputs 5amps @ 230VAC
Input Power (Standard)	12VDC Regulated power supply
MCS-I/O Comm Port	1 @ 38,400 Baud
Printed Circuit Board - Four power & ground planes	layer with separate

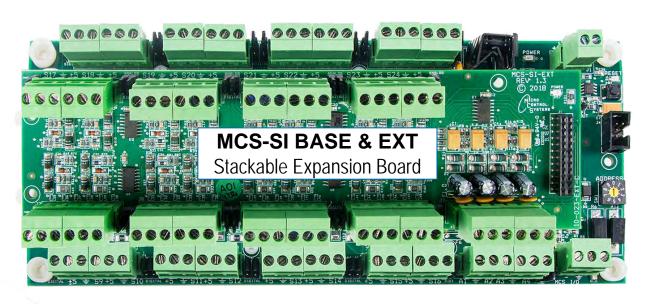
MCS-SI-EXT

Mounts on top of the MCS-SI-BASE by 5 nylon standoffs and 2 stacker headers (included on MCS-SI-BASE)

Sensor Inputs 16 inputs 0-5vdc
Analog Outputs 4 outputs 0-10VDC
Relay Outputs 10 outputs
5 amps @ 230VAC

Input Power

Powered by MCS-SI-BASE Power





MCS-MAGNUM +12 ADDITIONAL BOARDS

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MCS-MODBUS-I/O-12

Gives the MCS-MAGNUM+12 the ability to act as a Modbus Master using the Modbus RTU Protocol.

This allows the **MCS-MAGNUM**-N-12 to communicate to Modbus slave devices (such as Variable Frequency Drives, Compressors, etc.) to send and access parameters.

MCS-I/O Comm Port 1 at 38,400 baud

Modbus Comm Port...... RS485 with optional baud rates of

9600, 19200, and 38400

Printed Circuit Board Four layer with separate power

and ground planes

The MCS Commitment

The founders of Micro Control Systems Inc. have been in the manufacture of Microprocessor Controls their entire careers and have over eight decades of combined HVAC/R Microprocessor Controls experience. MCS was founded to meet the needs of the Utility and HVAC/R Industries with products based on the following design criteria:

- Quality & Service
 - Cost Effectiveness
 - Ease of Use

Our commitment is to provide practical solutions for the industries needs and to be both a leader and partner in the effective use of Microprocessor Controls.



Visit our web site at:
www.mcscontrols.com
For more information send email
to: sales@mcscontrols.com

- ♦ Interstate 75 to exit 139, West on Luckett Road
- ♦ Right at 1st light into Billy Creek Commerce Center
- ♦ Bear right with Enterprise Parkway
- ♦ Follow Enterprise as it parallels Interstate 75

5580 Enterprise Pkwy. Fort Myers, FL 33905 Office: (239) 694-0089 Fax: (239) 694-0031



Providing HVAC/R Solutions

Worldwide