



Providing HVAC/R Control Solutions Worldwide

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New in 2016 from MCS

## MCS-CENTRIFUGAL ENCLOSURE

Large Box - NEMA rating—Type 1  
27”w x 34.75”h x 8.0”d

MCS-MAGNUM-N

Operating Temperature - 4°F to 158°F (-20°C to 70°C)

Digital Inputs - 4 inputs 0 or 5vdc only

Relay Outputs - 10 outputs 6.3amps @ 230vac

Analog Outputs - 4 outputs 0-10vdc

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

RS-485 Comm Port - 1 @ 19,200 baud

Ethernet - 10/100 Mbps Ethernet

Real Time Clock - Battery backup

Power Detection - Automatic power fail reset

Touch Screen 15.4

Dimensions - 17”L x 12.11”W x 3.228”H

Gasket Material - HT-800 Medium Cellular Silicone - NEMA 4

LCD Screen - 15.4” (16:10 Diagonal)

16.2 Million Colors

1280x800 Resolution



The MCS-CENTRIFUGAL comes standard equipped with a MCS-MAGNUM-N controller board, 15.4” Touch Screen, two 15 amp, and one 20 amp circuit breaker. There is also a GFCI electrical outlet for laptop plug-in power at the box.

The MCS-CENTRIFUGAL has the following expansion boards installed: Three (3) MCS-SI16-AO4, and two (2) MCS-RO10.

With the expansion boards you have a total of:

- 64 Sensor Inputs
- 30 Relay Outputs and
- 16 Analog Outputs

Standard configuration includes: isolation relays, BMS Network connectivity, (Field selectable hardware or network BMS), and BMS Terminal block for chiller relay. This box is intended for use in an environment protected from the weather.

### Option -Centrifugal-VFD

Two (2) MCS-S116-A04, two MCS-RO10 expansion boards and a MCS-MODBUS (communicate to Modbus slave devices (such as Variable Frequency Drives, Compressors, etc.) to send and access parameters.

*NOTE: One MCS-S116-A04 is removed from the standard MCS-Centrifugal and replaced with the MCS-MODBUS.*

*Other Options are available, call for more information.*

For additional information on this new product or if you need information on any of our products,

Email: [sales@mcscontrols.com](mailto:sales@mcscontrols.com)