



# MCS-MAGNUM-15.4-12

## Description & Specifications



Part # **MCS-MAGNUM-15.4-12**

### Specifications

#### MCS-Magnum Controller

Dimensions.....	12.0"w, 8.0"h, 2.0"d
Mounting Holes	Mounts on a backplane utilizing 8 through-hole studs
Operating Temperature .....	-40°F to +158°F (-40°C to +70°C)
Operating Humidity.....	0-95% Non-Condensing
Storage Temperature .....	-40°F to +158°F (-40°C to +70°C)
Microprocessor .....	Zilog eZ80 Acclaim! @ 50mhz
Sensor Inputs (SI).....	12 inputs 0-5vdc (10-bit A/D)
Digital Inputs.....	4 inputs 0 or 5vdc only
Relay Outputs (RO).....	10 outputs 6.3amps @ 230vac
Analog Outputs (AO).....	4 outputs 0-10vdc
Printed Circuit Board	Six layer with separate power and ground planes
Input Power (Standard) .....	+12vdc power in board from 95-265vac switching power supply 77°F (25°C) ambient, 20VA max
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

#### MCS-TOUCH-15.4 - Capacitive Touchscreen

Dimensions .....	17"L x 12.11"W x 2"H
LCD Screen.....	15.4" (16:10 Diagonal) 1280 x 800 Resolution Soft Touch Capacitive Stylus pen
Gasket.....	BISCO HT-820-Firm Cellular Silicone
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)
Motherboard-Rev 4.0 .....	Freescall i.MX6 Dual Core 800mhz 2Gb of 512mhz DDR3 RAM memory 16Gb of eMMC Flash memory 10m/100m/1G Ethernet 1 Micro-SD Slots 2 USB Host 2.0 Real Time Clock (RTC) w/ Battery 3 RS485 communication ports
Touchscreen Surface.....	UV Degradation Protection

### Description

The **MCS-MAGNUM-15.4-12** consists of a MCS-MAGNUM controller along with a Touchscreen 15.4 in display.

The **MCS-TOUCH-15.4** capacitive touchscreen interface designed to simplify user access with the MCS-Magnum and MicroMag utilizing MCS-Connect to provide both graphics and service mode access to technicians. Input method: Finger, Stylus or \*Glove.

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-TOUCH-15.4 comes preloaded 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-TOUCH-15.4-12** can connect up to 60 MCS controllers and supports RS485 or Ethernet networking.

The MCS-MAGNUM-N is a durable microprocessor based controller designed for the hostile environments in the HVAC/R industry. It is designed to be the primary manager of the package it is controlling. The Magnum provides flexibility with setpoints and control options that can be selected prior to commissioning a system or when the unit is live and functioning. Displays, alarms and other interfaces are accomplished in a clear and simple language that informs the user as to the status of the controller.

The MCS-MAGNUM-N is a UL Recognized Component under UL File #169780 and also ROHS compliant.

Complementing the Magnum micro controller are a variety of MCS expansion boards.

### Packaging

MCS-SHIELDWIRE-GROUNDING multi-terminal splicing connector with 9"- 16 awg wire with ring terminal (package of 2).



Ship Weight..... 8.73 lb (approx)  
Box Dimensions..... 16" x 12.5" x 8" (approx)

### Parts Included

- **90W 12VDC Power Supply**  
Input Voltage: 88 VAC to 264 VAC  
Output Voltage: 12 VDC @ 7.5Amps  
Input Current: 3 A / 115 AC - 1.6 A / 230AC  
Output Rated Current: 7.5A  
Size: 2.76" x 3.54" x 2.14 (W\*H\*D) (70\*90\*54.5mm)
- **7ft CAT 5e Crossover Patch Cord, Orange**
- **Kit of (8) #6 x 1" Phillips Pan head Zinc Plated Steel Screws**



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\* The glove needs to have a conductive fabric or material to work with cap touchscreens.