



# MCS-MAGNUM-10.1-12

## Description & Specifications



Part # MCS-MAGNUM-10.1-12

### 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.....	12vdc
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 10.1

Dimensions.....	12.204”L x 9.055”W x 3.215”H
LCD Screen.....	10.1” Diagonal (Aspect Ratio 16:10) 1280 x 800 Resolution 5-Wire resistive touch w/Stylus pen
Gasket.....	HT800 Cellular Silicone NEMA 4 IP66 rated
Surface Treatment.....	Glare/Anti-Reflection ≤1.5%
Operating Temperature.....	-4°F to 149°F (-20°C to +65°C)
Operating Humidity.....	0-95% Non-Condensing
Storage Temperature.....	-13°F to 158°F (-25°C to +70°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

#### Parts Included

- **90W 12VDC Power Supply**  
Input Voltage: 88 VAC to 264 VAC  
Output Voltage: 12 VDC @ 7.5 Amps  
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 Panhead Zinc Plated Steel Screws**



### Description

The MCS-MAGNUM-10.1-12 consists of a MCS-MAGNUM controller along with a Touchscreen 10.1 in display.

The MCS-TOUCH-10.1 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 and \*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.

The MCS-TOUCH-10.1-12 can connect up to 60 MCS controllers and supports RS485 or Ethernet networking.

The MCS-TOUCH-10.1-12 makes it easy for the user to manage more complex installation diagrams, without losing the overall view of the installation, as well as ensuring that the pages can be browsed in a fast and straight forward manner.

The MCS-MAGNUM 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 set points 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.

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)

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