



# MCS-MAGNUM-10.1

## Description & Specifications

### Specifications

#### Magnum Controller

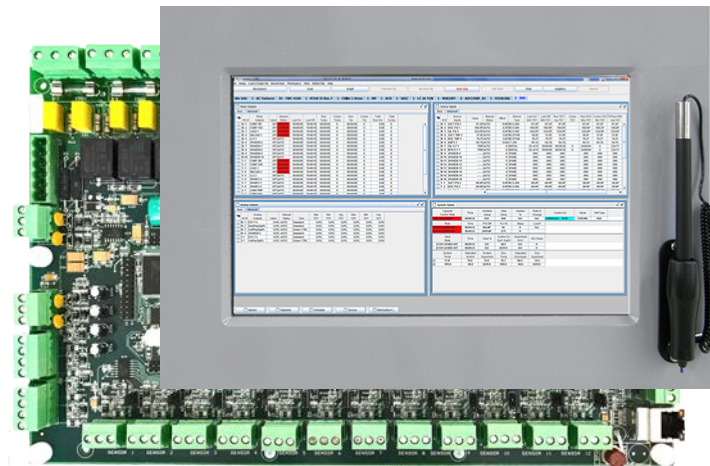
Dimensions.....	12.0"w, 8.0"h, 2.0"d
Mounting Holes.....	Mounts on a backplane utilizing 8 through-hole studs
Operating Temperature .....	-40°F to +158°F (-40°C to +70°C)
Operating Humidity.....	0-95% Non-Condensing
Storage Temperature .....	-40°F to +158°F (-40°C to +70°C)
Microprocessor.....	Zilog 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) .....	115 or 230vac ±10% 50/60Hz @ 77°F (25°C) ambient, 20VA max (Voltage is field selectable)
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

#### Magnum Controller Option

-24 .....	24vac input power ±10% 50/60Hz @ 77oF (25oC) ambient
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#### Touch Screen 10.1

Dimensions.....	12.204"L x 9.055"W x 3.215"H
Door Mount.....	10.875"L x 7.875" with cutout 10 mount studs thru customers encl. HT800 Cellular Silicone Gasket NEMA 4 IP66 rated
LCD Screen .....	10.1" Diagonal (Aspect Ratio 16:10) 16.2 Million Colors 1280 x 800 Resolution View Angle 85°U, 85°D, 85°L, 85°R 5-Wire resistive touch w/Stylus pen White LED Backlight (Min Life 50,000 Hrs) Luminance Min. 400 cd/m <sup>2</sup>
Surface Treatment.....	Glare/Anti-Reflection ≤1.5% Hard-Coating (3H)
Operating Temperature.....	-20°C to +65°C Operating Temperature
Operating Humidity.....	0-95% Non-Condensing
Storage Temperature.....	-25°C to +70°C Storage Temperature
Power Input .....	12VDC regulated
Power Output.....	12VDC output regulated
Motherboard .....	Freescall i.MX6 Dual Core 800mhz 1Gb of 512mhz DDR3 RAM memory 4Gb of eMMC Flash memory 10m/100m/1G Ethernet 1 Micro-SD Slots 1 USB On-The-Go (OTG) 2 USB Host 2.0 Real Time Clock (RTC) w/ Battery LVDS for 15.4" LCD 5-wire touch 3 RS485 communication ports (max. baud rate 115k) Mini PCIe Interface



Part # MCS-MAGNUM-10.1



### Description

The **MCS-MAGNUM-10.1** consists of a MCS-MAGNUM controller along with a Touchscreen 10.1 in display. The **MCS-TOUCH-10.1** is a new touchscreen interface designed to simplify user access with the **MCS-MAGNUM** utilizing **MCS-CONNECT** to provide both graphics and service mode access to technicians. Information and graphics on the TOUCH-10.1 are shown on a 10.1" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

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

The MCS-TOUCH-10.1 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.

### Kit Content

- 50W Single Output Power Supply
- 115-230 VAC input (+-15%)
- 12VDC output regulated
- Resistant to short circuiting, overloading, and over voltage. Operating temperature up to 70 °C
- 7ft CAT 5e Crossover Patch Cord, Orange



MCS-MAGNUM-TOUCH 10.1 also ships with MCS-MOUNT KIT which includes 8 #6 sheet metal screws, 5 Standoffs and 1 Lexan Cover.

5580 Enterprise Pkwy., Fort Myers, FL 33905

Office: 239-694-0089 • Fax: 239-694-0031 [www.mcscontrols.com](http://www.mcscontrols.com)