



MCS-MAGNUM-10.1-12

Description & Specifications



Part # MCS-MAGNUM-10.1-12

Description

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

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

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.....Freescale 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 @ 7.5Amps
Input Current: 3A / 115 AC - 1.6A / 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 Panhead Zinc Plated Steel Screws**



5580 Enterprise Pkwy., Fort Myers, FL 33905

Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com