MCS-MAGNUM-15.4
Description & Specifications

RoHS Compliant ✓

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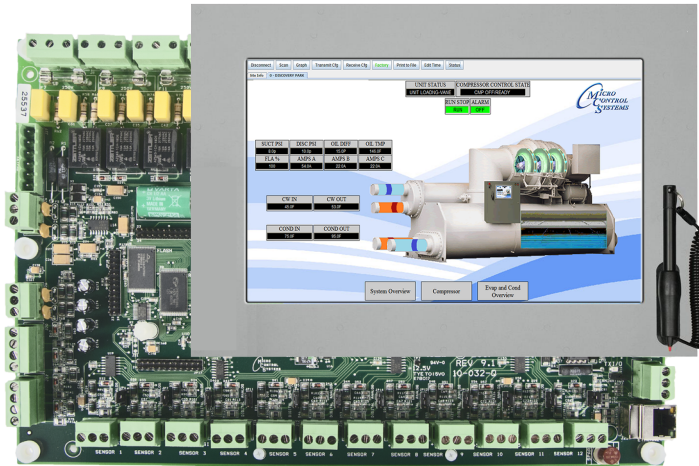
Part # **MCS-MAGNUM-15.4**

Description

The **MCS-MAGNUM-15.4** consists of a MCS-MAGNUM controller along with a Touchscreen 15.4 in display. The **MCS-TOUCH-15.4** 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-15.4 are shown on a 15.4" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

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

The MCS-TOUCH-15.4 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 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.

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

Kit Content

50W Single Output Power Supply
115-230 VAC input (+-15%)
12 volt protections: Short circuit/ Over-load/ Over voltage Cooling by free air convection - Fuse Internal - non-field changeable
Operating temperature up to 70 °C

7ft CAT 5e Crossover Patch Cord, Orange

MCS-MAGNUM-TOUCH 15.4 also ships with MCS-MOUNT KIT which includes 8 #6 sheet metal screws, 5 Standoffs and 1 Lexan Cover.

Specifications

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

Touch Screen 15.4

Dimensions	17"L x 12.11"W x 2"H
Mounting	Door Mount 15.75"L x 10.875"W Cutout Mounts utilizing 10 through-hole studs
Gasket Material	HT-800 Medium Cellular Silicone NEMA 4
LCD Screen	15.4" (16:10 Diagonal) 16.2 Million Colors 1280x800 Resolution View Angle 70° x 70° x 70° x 70° (Up, Down, Left)
Surface Treatment	Glare/Anti-Reflection ≤1.5% Hard Coating (3H)
Operating Temperature	-4°F to 158°F (-20°C to 70°C)
Operating Humidity	0-95% Non-Condensing
Storage Temperature	-22°F to 176°F (-30°C to 80°C)
Power Input	115-230 VAC input ±15%)
Power Output	12VDC output regulated
Motherboard-Rev 4.0	Freescale i.MX6 Dual Core 800mhz 2Gb of 512mhz DDR3 RAM Mem. 16Gb of eMMC Flash memory 1Gb Ethernet (100Mb/10Mb comp.) 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 wi/5-wire resistive touch screen 3 RS485 communication ports (max. baud rate 115k)