



MAGNUM-TOUCH-15.4-DEMO-12

Description & Specifications

RoHS
Compliant ✓



MAGNUM-TOUCH-15.4-DEMO-12

Description

The MCS-TOUCH-15.4-DEMO-12 consists of a Magnum micro controller, MCS-RO-BASE, MCS-RO-EXT, MCS-SI-BASE, MCS-SI-EXT expansion boards and a MCS-TOUCH-15.4 capacitive touchscreen interface.

Also installed in the Demo unit is a **MCS-EXV DRIVER**, **MCS-500 Transducer** with cable, **MCS-KEYPAD-PANL-12**, **MCS-CT300**, a **MCS-POCKET ROUTER** and a **MCS-T100**. This setup allows the user to test both the demo unit and various software configurations in-house.

Communication with these units occurs at 38,400 baud over the MCS-I/O port, which is dedicated to this purpose.

MCS-CONFIG and **MCS-CONNECT** software packages are installed allowing for system configuration, dynamic on-line display screens, remote communication, graphing and more.

The MCS-MAGNUM is a durable microprocessor based controller designed for the hostile environment of the HVAC/R industry. It is designed to be the primary manager of the package it is controlling.

The MCS-MAGNUM provides flexibility with setpoints and control options that are selectable prior to commissioning a system or when the unit is live. Displays, alarms and other interfaces are accomplished in a clear and simple language that informs the user as to the status of the controller.

An Ethernet and RS-485 port is also provided for communication with other manufacturers systems.

Other new features include the integration of BACnet IP, Modbus IP and Modbus RTU into the Magnum.

Demo Box Specifications

Dimensions..... 16" w x 21" h x 8" d

Temp. Range for Enclosure/Touch Screen/ MCS-EXV Driver/MCS-Thermostat and MCS-Zone-II

Operating Temperature..... -32°F to +158°F (-0°C to +70°C)

Operating Humidity..... 0-95% Non-Condensing

Storage Temperature..... -4°F to +158°F (-20°C to +70°C)

Controller Specification

Microprocessor Zilog eZ80 Acclaim! @ 50mhz
Sensor Inputs (SI)..... 12 inputs 0-5vdc (10-bit Analog or Digital)
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 & ground planes
Input Power (Standard)..... +12vdc at 0.7amps (fully loaded)
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-SI-BASE and MCS-SI-EXT Expansion Boards

Sensor Inputs (SI)..... 32 inputs 0-5vdc (10-bit A/D)

Analog Outputs (AO)..... 8 outputs 0-10vdc

MCS-I/O Comm Port 1 @ 38,400 baud

MCS-RO-BASE and MCS-RO-EXT Expansion Boards

Relay Outputs (RO)..... 20 outputs 5amps @ 230VAC

MCS-TOUCH-15.4 - Capacitive Touchscreen

Dimensions..... 17" L x 12.11" W x 3.228" H

Gasket BISCO HT-820-Firm Cellular Silicone

LCD Screen 15.4" (16:10 Diagonal)
16.2 Million Colors
1280x800 Resolution
Soft Touch Capacitive Stylus pen
Power Input 12Vdc 2 amps
Motherboard Freescale i.MX6 Dual Core 800mhz
1Gb of 512mhz DDR3 RAM Mem.
4Gb of eMMC Flash memory
1Gb Ethernet (100Mb/10Mb comp.)
1 Micro-SD Slots;
2 USB Host 2.0; Real Time Clock (RTC)
w/ Battery

Kit Content

Pelican carrying case, Keyboard with USB connector, removable stylus touch pen, MCS-500-Transducer and cable.



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