



MAGNUM-TOUCH-15.4-DEMO-12

Description & Specifications



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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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