

MAGNUM-TOUCH-15.4-KP-DEMO-12

Description & Specifications





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The MCS-TOUCH-15.4-KP-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.

MCS-MAGNUM has built-in support for Modbus RTU, MCS IP and MCS 485.

Demo Box Specifications

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

Temp. Range for Enclosure/Touch Screen/MCS-EXV Driver

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	
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

Touch Screen 15.4 - Specification

Dimensions	17"L x 12.11"W x 3.228"H
	Gasket Material HT-800 Firm
	Cellular Silicone -NEMA 4
LCD Screen	15.4" (16:10 Diagonal) 16.2 Million Colors
	1280x800 Resolution
	5-Wire resistive touch w/Stylus pen
	Surface Treatment
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)

Kit Content

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

w/ Battery



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