

The MCS-8 Panel Mount Specifications & Description

Physical Characteristics

Package Specifications

Dimensions	13.75"w, 12.25"h, 2.50"d
Mounting Holes	6 holes w/rubber grommets
Wire Duct	1.75"w x 1.62"h top & bottom
Cover	12.87"w x 8.25"h hinged & removable
Color	Textured 'Profile Gray'
Material	0.062" aluminum
Display	16 character x 2 lines, large character, LED backlight, extended temperature LCD
Keypad Size	8.50"w x 6.00"h recessed
Keypad Layout	8 status & 8 entry keys
Operating Temperature	-4°F to +158°F (-20°C to +70°C)
Storage Temperature	-22°F to +158°F (-30°C to +70°C)

Control Specifications

Microprocessor.....	Intel 80C196 @ 12mhz
Sensor Inputs (SI)	8 inputs 0-5vdc (10-bit A/D)
Relay Outputs (RO).....	8 outputs 10amps @ 115vac
Analog Output (AO).....	(1) 0-10vdc or 4-20mA
System Total	48 inputs and 48 outputs
Printed Circuit Board	Four layer with separate power and ground planes
Input Power (Standard)	115vac ±10% 50/60Hz @ 77°F (25°C) ambient, 20VA max
MCS-IO Comm Port	1 @ 38,400 baud
RS-485 Comm Port	1 @ 19,200 baud
RS-232 Comm Port.....	1 @ 19,200 baud
Real Time Clock.....	Battery backup
Power Detection.....	Automatic power fail reset
Authorization	Multiple levels
Primary Control	Built in safeties
History Information	Automatic 144 samples all points

Product Description

The MCS-8 is a rugged 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-8 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 MCS-8 micro controller are MCS-I/O, MCS-RO8 and MCS-SI16 units. This allows for system expansion to a maximum of 48 inputs and 48 outputs.



Part # MCS-8-P-BLCD

Options

-24	24vac input power ±10% 50/60Hz @ 77°F (25°C) ambient
-230	230vac input power ±10% 50/60Hz @ 77°F (25°C) ambient



File No: E169780 (115vac & 24vac)

The MCS-8-P-BLCD contains a MCS-8-N micro controller along with a keypad and display. It is the managing controller coordinating the other input-output units. All communication to these units occur at 38,400 baud over the MCS-I/O port which is dedicated for this purpose.

A RS-485 port is also provided for communication with other manufacturers systems. A portal is available that allows communication via BACnet, Modbus, Johnson N2, Automated Logic, LonWorks or the data format is available to allow the user to communicate directly.

A complete software support package is available for your PC allowing for system configuration, dynamic on-line display screens, remote communication, graphing and more. An optional system development package is also available for the development of proprietary software.