



The MCS-8 Door Mount Specifications & Description

Physical Characteristics

Package Specifications

Dimensions 13.75" w, 12.25" h, 3.21" d
 Mounting Holes 10 holes plus cutout
 Wire Duct 1.75" w x 1.62" h top & bottom
 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-I/O 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-D-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-D-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.