C *MICRO* *CONTROL* *SYSTEMS*

The MCS-8 Box Mount Specifications & Description

Physical Characteristics

Package Specifications

Dimensions ....13.87"w, 12.75"h, 2.31"d
Mounting Holes ....4 holes 0.31" diameter
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% 50/60 Hz @ 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

Part # **MCS-8-B-BLCD**

Options

MCS-8-B-BLCD-24.............24vac input power ±10%
    50/60Hz @ 77°F (25°C) ambient
MCS-8-B-BLCD-230..........230vac input power ±10%
    50/60Hz @ 77°F (25°C) ambient

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File No: E169780 (115vac & 24vac)

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, MCS-SI8/16 and MCS-AO8 units. This allows for system expansion to a maximum of 48 inputs and 48 outputs.

The MCS-8-B-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.