The MCS-8-N Specifications & Description

Physical Characteristics

Package Specifications

Available Enclosures	Box Mount (MCS-8-B-BLCD)
	Door Mount (MCS-8-D-BLCD)
	Panel Mount (MCS-8-P-BLCD)
Operating Temperature	-4°F to +158°F (-20°C to +70°C)
Storage Temperature	-22°F to +158°F (-30°C to +70°C)

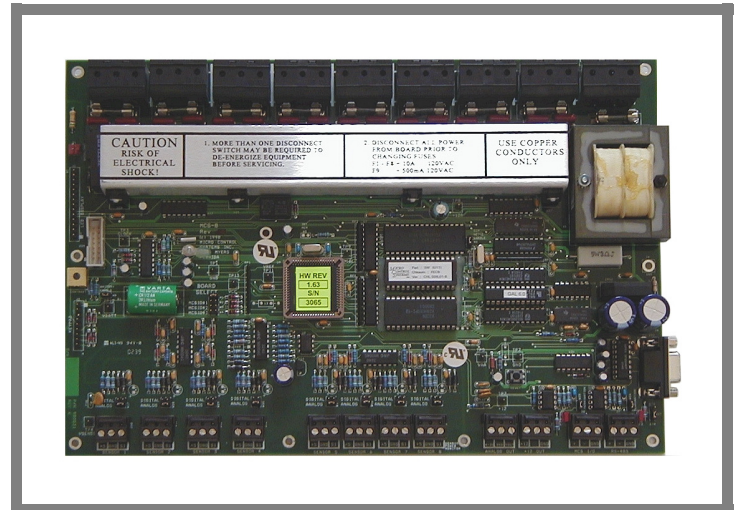### Control Specifications

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

Part # **MCS-8-N**

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

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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-N is available in a variety of enclosures which contain both 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.