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The MCS-8 & MCS-I/O Specifications & Description

Physical Characteristics

Inside Control Panel Package

Dimensions..... 13.75"l, 12.25"w, 2.85"h
Mounting Holes..... 6 holes w/rubber grommets
Wire Duct..... 1.5" x 10.5" long top & bottom
Cover: ..... 8.25" x 12.75" hinged/removable

Door Panel Package

Dimensions..... 13.75"l, 12.25"w, 3.15"h
Mounting Holes..... 12 holes plus cutout
Wire Duct..... 1.0" x 1.5" top & bottom

Box Package

Dimensions..... 13.75"w, 12.25"h, 2.85"d
Mounting Holes..... 4 holes w/rubber grommets
Wire Duct..... 1.0" x 1.5" top & bottom

General Packaging Specification

Color ..... Texture 'Profile Gray'
Material..... 0.062 Aluminum
LCD Display 2x16 large char. extended temp.
Keypad Size..... 6.0" x 8.5" recessed on cover
Keypad Layout..... 8 status keys & 8 entry keys
Temp. Operation..... (w/LCD) -4 to +158 °F
Temp. Storage ..... (w/LCD) -22 to +158 °F
Input Power:..... 120 Vac 50 / 60 hertz

Control Specifications

Microprocessor ..... Intel 80c196 @12mhz
Relay Outputs (RO) ..... 8 outputs 10 amps. @120 Vac
Sensor Inputs (SI)..... 8 Inputs 0-5 Vdc
Analog Output..... (1) 0 to 10 Vdc or 4 to 20 ma
Total Outputs & Inputs..... 48 RO's, 48 SI's, 6 AO's
Transformer ..... 120 Vac
MCS-IO Comm Port..... 1 @ 38,400 baud
RS485 Comm Port ..... 1 @ 19,200 baud
RS232 Comm Port..... 1 @ 19,200 baud
Real Time Clock ..... battery backed up, Year 2000 Compliant
Power Detection ..... automatic power fail reset
Authorization..... multiple levels
Primary Control..... built in safeties
History Information..... automatic all points

Options

Modem..... 14.4K baud
24 volt power supply..... input power 24 Vac
230 volt power supply..... input power 230 Vac
Backlit LCD..... large character 2 x 16

General Description

The system is designed to be cost effective allowing installation in smaller applications, yet expandable to handle large packages. The controller is designed to be the primary manager of the package it is controlling. The MCS-8 microprocessor is complemented with up to 5 MCS-I/O units or a combination of MCS-RO8's and MCS-SI8/16 units. Currently this allows for an expansion to a total of 48 Relay Outputs, 48 Sensor Inputs and 4 Analog Outputs.

The MCS-8 contains the keypad and display. It is the managing controller coordinating the I/O units. The I/O units communicate over the MCS-I/O port which is dedicated to this purpose. A second RS485 port is standard for the purpose of communicating to other manufacturers systems. The software interface is supplied in the MCS-8 and the data format is available to allow the user to add this feature.

A Windows based support package is available for your PC allowing for system configuration, dynamic on line display screens, remote communications, graphing, etc.. An optional system development package is available which allows the user to develop proprietary software.

The MCS-Portal allows communications via Backnet, Modbus, Johnson N2 and Automated Logic.