The MCS-I/O Panel Mount Specifications & Description

Product Specifications

Package

Dimensions	13.75"w, 12.25"h, 2.33"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
Operating Temperature	-40°F to +175°F (-40°C to +80°C)
Storage Temperature	-40°F to +175°F (-40°C to +80°C)

Control

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
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
Power Detection	Automatic power fail reset

Part # **MCS-I/O-P**

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-I/O provides a flexible and cost effective way to allow sensor input, relay output and analog output expansion for the MCS-8 system. Each MCS-I/O has a stand alone microprocessor which communicates with the MCS-8 micro controller over the MCS-I/O port at 38,400 baud. All data is check summed with auto error correction. Because communication is over a RS-485 long distance two-wire differential network transmission system, the MCS-I/O may be located up to 5,000 feet away. Each MCS-I/O board is equipped with a power transformer and an automatic power fail reset system.

The printed circuit board is a four layer board with a separate power and ground plane to provide the ultimate in electrical noise suppression. This coupled with noise suppression circuitry makes the MCS-I/O virtually impervious to electrical noise.

The MCS-I/O-P contains an MCS-I/O-N which provides eight sensor inputs, eight relay outputs and one analog output. The inputs are universal and support either a digital or analog input signal.

All input and output connections to the board are made through the use of three-position removable terminal blocks. The terminal blocks provide screw connections which eliminate the need for staycons. Because the terminal blocks are removable, board replacement requires no wires to be removed.

The MCS-8 currently supports up to five MCS-I/O's, depending on the software, for a total system expansion of 48 inputs and 48 outputs.