



The MCS-SI16 Specifications & Description

Physical Characteristics

Standard Mounting

Dimensions 10.87"l, 4.00"w, 2.50"h
 Mounting Holes 4 holes using #6 screws through
 nylon collars at corners of board
 Cover Lexan with standoffs (only on
 standard mounting)

Box Mount

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

Operating Temperature -40°F to +175°F (-40°C to +80°C)
 Storage Temperature -40°F to +175°F (-40°C to +80°C)

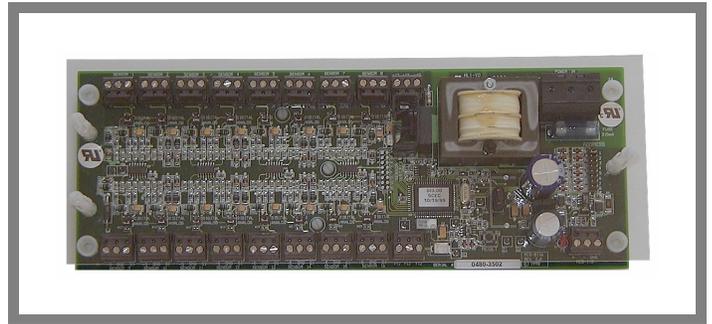
Control Specifications

Microprocessor Toshiba TMP88PS49F @ 16mhz
 Sensor Inputs (SI) 16 inputs 0-5vdc (10-bit A/D)
 Printed Circuit Board Four layer with separate power
 and ground planes
 Input Power (Standard) 115vac ±10% 50/60Hz @ 77°F
 (25°C) ambient, 12VA max
 MCS-I/O Comm Port 1 @ 38,400 baud
 Power Detection Automatic power fail reset

Product Description

The MCS-SI16 provides a flexible and cost effective way to allow sensor input expansion for MCS micro controllers. Each MCS-SI16 has a stand alone microprocessor which communicates with a MCS 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-SI16 may be located up to 5,000 feet away. Each MCS-SI16 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-SI16 virtually impervious to electrical noise.



Part # MCS-SI16

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
 -B Box mount



File No: E169780 (115vac & 24vac)

The MCS-SI16 provides sixteen sensor inputs. The inputs are universal and support either a digital or analog input signal.

Each input consists of a three position removable terminal block, providing +5vdc, ground and signal in. A polyfuse protects the +5vdc line from shorted sensors. 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.