

MCS-RO-BASE Description & Specifications



Description

RoHS

Compliant

The **MCS-RO-BASE** provides a flexible and cost effective way to allow relay output expansion for the **MCS-MAGNUM**, and **Micromag**. Each MCS-RO-BASE has a stand-alone microprocessor which communicates with a Magnum/Micromag over the MCS-I/O port at 38,400 baud. All data is check summed with auto error correction. Because the communication is over a RS-485 long distance two-wire differential network transmission system, the MCS-RO-BASE may be located up to 5,000 feet away. The MCS-RO-BASE board is powered by a 12VDC regulated power supply.

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 electronics makes the MCS-RO-BASE virtually impervious to electrical noise.

The MCS-RO-BASE provides ten relay outputs fused at 5.0 amps. Each relay output provides common, normally open and normally closed contacts on a removable terminal block. The terminal blocks provide screw connections which eliminate the need for sta-cons. Because the terminal blocks are removable, board replacement requires no wires to be removed. The MCS-RO-BASE allows one optional MCS-RO-EXT board to be stacked on top by using a board stacker header. Doing so will expand the number of Relays from 10 to 20, allowing twice the number of relays in the same footprint of one MCS-RO-BASE.

Specifications

Controller

Dimensions
Mounting Holes Mounts on a backplane using
four #6 sheet metal screws
Operating Temperature40°F to +158°F (-40°C to +70°C)
Operating Humidity0-95% Non-Condensing
Storage Temperature40°F to +158°F (-40°C to +70°C)
Microprocessor Microchip PIC16F883 @ 8mhz
Relay Outputs (RO) 10 outputs 5amps @ 230VAC
Printed Circuit Board Four layer with separate power
and ground planes
Input Power (Standard) 12 vdc Regulated Power Supply
Minimum (Brown in) 10.50 vdc
Amp Draw (Loaded)

MCS-I/0 Comm Port 1 @ 38,400 Baud Power Detection Automatic power fail reset

Packaging

Ship Weight	0.94 lb (approx)
Box Dimensions	12" x 5" x 3" (approx)