



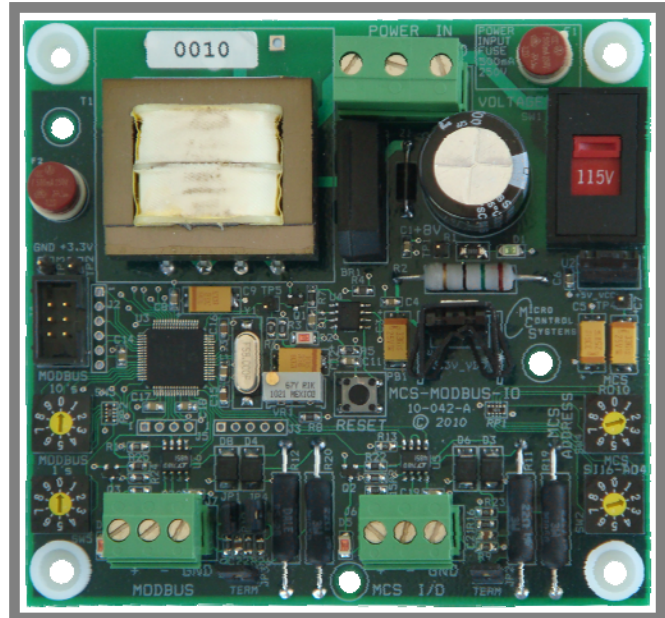
The MCS-MODBUS-TC Specifications & Description (Turboacor Only)

Physical Characteristics

Dimensions..... 4.25"l, 4.00"w, 2.50"h
 Mounting Holes 4 holes using #6 screws through nylon collars at corners of board
 Operating Temperature -40°F to +158°F (-40°C to +70°C)
 Storage Temperature -40°F to +158°F (-40°C to +70°C)
 Microprocessor..... Microchip 16-bit PIC processor
 Printed Circuit Board Four layer with separate power and ground planes
 Input Power (Standard) 115 or 230vac ±10% 50/60Hz at 77°F (25°C) ambient, 20VA max (Voltage is field selectable)
 Power Detection Automatic power fail reset
 MCS-I/O Comm Port 38,400 baud
 Modbus Comm Port RS485 baud rate 38400
 Other Settings 1 stop bit, 8 data bits, No Parity

Options

-24 24vac input power ±10%
 50/60Hz @ 77°F (25°C) ambient



Part # MCS-MODBUS-TC

Product Description

The MCS-MODBUS-TC gives the MCS-MAGNUM the ability to act as a Modbus Master using the Modbus RTU Protocol. This allows the MCS-MAGNUM to communicate to Turboacor Compressors to send and access parameters. The MCS-MODBUS-TC acts like an MCS-RO10 and MCS-SI16-AO4 to the MCS-MAGNUM. The MCS-MAGNUM currently writes 4 analog outputs and read 13 sensors inputs. A maximum of four (4) MCS-MODBUS-TC boards may be connected to the MCS-MAGNUM following the MCS-I/O standards.

Two selection dials on the lower right provide the MCS-MODBUS-TC addresses to the MAGNUM. The top dial provides the MCS-MODBUS-TC RO10 address on the MCS-I/O network. The bottom dial provides the MCS-MODBUS-TC SI16-AO4 address on the MCS-I/O network.

Sensor inputs

- | | |
|----------------|----------------|
| 1. CMPx FAULT | 8. CHOKE SPDx |
| 2. CTL MODE x | 9. SURGE SPDx |
| 3. IGV OPN% x | 10. ACT SPDx |
| 4. SUCT PSIx | 11. CMPRATIOx |
| 5. DISC PSIx | 12. AMPSx |
| 6. CAVITY TMPx | 13. IGV STEPSx |
| 7. INVERTTMPx | |

Analog Outputs

- | | |
|---------------|---------------|
| 1. DEMAND%x | 3. IGVx OPEN% |
| 2. START RPMx | |

Typical Network:

