MOTORTRONICS™

Solid State AC Motor Control

TE-RTD12
Motor RTD Monitoring

Advanced Motor Temperature Monitoring
Preventive Maintenance

Monitor up to 12 RTD's with Differential CT Function

Programmable Digital I/O and Analog I/O

TE-RTD12 Relay

Resistance Temperature Detector

The TE-RTD12 Relay device adds advanced RTD (Resistor Temperature Detector) and differential current monitoring capability to your new or existing motor system. The TE-RTD12 Relay device offers 12 built-in RTD inputs, 3 programmable output relays (5A), 2 isolated analog inputs (4-20mA), 1 isolated analog output (4-20mA), 3 isolated digital inputs, and differential current feedback monitoring.

Additionally, an RS485 (2 wire) communication port is available for use with a master device (PLC / SCADA / Operator Interface) for the purpose of programming and/or monitoring.

Programmable relay outputs are provided that can be configured for a system function or for use as a global Alarm or Trip based on temperature readout, which can be entered in °C or °F.

A built-in event recorder stores fault history of past events with data points including Alarm / Trip Code, Current / Temperature value, Analog input value and Date / Time Stamp.

TE-RTD12

Specifications:

Control Voltage: 110 – 240 Vac

Inputs: 12 RTD inputs (Pt100, Ni100, Ni120, Cu10), 3 CT inputs for differential CT's
2 isolated 4-20mA analog inputs[1], 3 isolated Digital Inputs[2]

Outputs: 3 programmable form C Relays with 5A contact rating,   One isolated 4-20mA analog output

Keypad: Two 4-digit displays, one for RTD name, one for Temperature, LEDs for OK, ALARM & TRIP, 3 Output Relay LEDs, Easy to use pushbutton keypad for customer interface.

Differential CT's: Primary 5-2000A, Secondary 1A or 5A, Alarm and Trip Levels OFF, 5% to 90 % of CT value

Resolution/Accuracy: Analog Inputs better than 1%, Analog Outputs better than 0.5%

Communication Port: 2 Wire RS-485[2], MODBUS RTU

I/O Terminals: Removable terminal blocks

Temperature: Operating 32°F – 122°F / 0°C to 50°C, Storage -4°F to 176°F / -20°C to 80°C

[1] All analog I/O share a common ground point
[2] RS485 and Digital Inputs share a common ground point