



# 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*



**DRIVE CENTRE**   
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# 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<sup>1</sup>, 3 isolated Digital Inputs<sup>2</sup>
- 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<sup>2</sup>, 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

<sup>1</sup> All analog I/O share a common ground point

<sup>2</sup> RS485 and Digital Inputs share a common ground point

## CORPORATE HEADQUARTERS

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