



# MOTORTRONICS™

*Solid State AC Motor Control*

## ***TE-RTD12*** ***Motor RTD Monitoring***

**Advanced Motor Temperature Monitoring**  
**Preventive Maintenance**

***Monitor up to 12 RTD's***

***Differential CT Function***

***Programmable Digital I/O***

***Programmable Analog I/O***



# 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.

The TE-RTD12 Relay device can be mounted on a back panel using the mounting bracket or DIN-Rail mount.



TE-RTD12

## Specifications:

<b>Control Voltage:</b>	110 – 240 Vac
<b>Inputs:</b>	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>
<b>Outputs:</b>	3 programmable form C Relays with 5A contact rating, One isolated 4-20mA analog output
<b>Keypad:</b>	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.
<b>Differential CT's:</b>	Primary 5-2000A, Secondary 1A or 5A, Alarm and Trip Levels OFF, 5% to 90 % of CT value
<b>Resolution/Accuracy:</b>	Analog Inputs better than 1%, Analog Outputs better than 0.5%
<b>Communication Port:</b>	2 Wire RS-485 <sup>2</sup> , MODBUS RTU
<b>I/O Terminals:</b>	Removable terminal blocks
<b>Temperature:</b>	Operating 32°F – 122°F / 0°C to 50°C, Storage -4°F – 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

### Motortronics / Phasetronics

1600 Sunshine Drive  
Clearwater, Florida 33765  
Tel: 727.573.1819 or 888.767.7792  
Fax: 727.573.1803 or 800.548.4104  
E-mail: sales@motortronics.com  
www.motortronics.com

## INTERNATIONAL LOCATIONS

### Motortronics Int'l Korea Co Ltd

601, Daeryung Techno Tower 5-cha  
Gasan-dong, Geumcheon-gu  
Seoul, Korea 9153-774  
Tel: 82-2-867-5808 / Fax: 82-2-867-6004  
www.motortronics-korea.com



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### M & P Machinery & Electronics Control

113 Zaoshan Road  
Qingdao, China 266100  
Tel: 86-532-87660633  
Fax: 86-532-87660733  
www.mp-cn.com