TRANS-HEAT, LLC.
heat tracing specialists

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Romans 10:11 For whosoever believes on Him shall not be ashamed.

TraceMate

TEMPERATURE CONTROLS

Controls

DESCRIPTION

The TraceMate is an electronic temperature control designed for indoor/outdoor use in non-hazardous or Class 1 Division 2 hazardous locations. It not only controls and monitors temperature, but also monitors your heating process for current and ground leakage with built-in GFEP. The TM is an ideal electronic control for heat trace and tubing bundle. Temperature sensing is achieved through a 100Ω, 3-wire platinum RTD mounted on the pipe. The TM can be installed locally or remotely under certain provisions. The TM eliminates the need for a separate ground fault breaker and the associated installation costs.

TraceMate's outstanding reliability ensures your time is spent producing, not troubleshooting. A comprehensive alarm package provides quick fault detection and a ground fault trip for optimal performance and safety. Spotting fault conditions is easy with the TraceMate's green light on the front door. You can also use the NO/NC alarm contacts to send a signal to a remote location.

The TM controls your heat tracing to a differential of only 3°C using solid-state controls and microprocessor-driven commands. The digital temperature setpoint offers fast, precise settings over a wide range. No mechanical thermostat can come close to matching the TraceMate's performance. The unit is self-contained, easy to configure and install. By combining the control, system monitoring and testing requirements of a heat trace control system into a single package, the TM facilitates significant, low-cost system upgrades. It is also readily customizable to meet your specific system requirements.

Range	*-50 to +500°C (-58 to 932°F)*
Accuracy/Repeatability	*±4.5°F, ±1.8°F*
RTD Input	*Single 100Ω platinum, 3-wire 20Ω maximum lead resistance*
Configuration	*Single-pole, Double Pole control circuits 250A 1/2 cycle inrush*
Ratings	*120V-240VAC@30A*
Ground Fault Measurement	*0mA to 511mA; 1mA steps*
Voltage Measurement	*0 to 300VAC 3%±2V (Circuit 1 ONLY)*
Control Power	*From heater voltage 120V-240VAC, 2VA Fused*
Protection	*2A fuse MOV transient protection*
Remote Monitoring	*DC or AC alarm output for PLC or remote alarm indication*
User Interface	*12 position dip switch, Reset Heater Test (Dip Switch)*
Panel Indicators	*Power On, Heater On, Low/High Temp, Current Fail, Ground Fault, RTD Fail*
User Definable Options	*Heater Setpoint: Low/High Temp: 0°C to 511°C Steps; Units: °C or °F Current Fail Setpoint: 0.0A to 30.0A, 0.1A Steps; Ground Fault Trip: 0mA to 511mA, 1mA Steps*
Alarms	*High/Low Temp, Current Fail, Ground Fault, RTD Fail, No Voltage, TraceCheck,*
TraceCheck	*Self-diagnostic exercises dormant systems every 24 hours for early warning for shutdown prevention. Status indicators show cause of alarms. Separate fail-safe local and remote alarms*
Enclosure	*NEMA-4X painted steel, Single Pole: 8"H x 6"W x 4"D; Double Pole: 10"H x 8"W x 4"D; (1)3/4" knockout; (2) 1/2" knockouts for RTD & Signal Wire*
Approvals	*CSA C/US Class I, Div. 2, Groups A, B, C, D*

SPECS

- *Temperature Control*
- *System Fault Alarm*
- *Early Warning*
- *Remote Monitoring*
- *Hazardous / Non-hazardous Area Usage*
- *Low Installed Cost*

FEATURES

Example Configuration	***TM-1SIH1-E5-RTD-A1***	
TM-	*System Voltage*	*Ship Weight*
TM-1SIH1-E5-RTD-A1	*120VAC*	*8 Lbs.*
TM-1DIH2-E5-RTD-A1	*208VAC-240VAC*	*9 Lbs.*
TM-1SIH1-E5-RTD-A1-277	*277VAC*	*8 Lbs.*

ORDERING INFO