

## TraceMate

Heat Trace Controller



Controls

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  $100\Omega$ , 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.

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## Specifications

Range	-50 to +500°C (-58 to 932°F)	
Accuracy/Repeatability	±4.5°F, ±1.8°F	
RTD Input	Single 100 $\Omega$ platinum, 3-wire 20 $\Omega$ maximum lead resistance	
Configuration	Single-pole, Double Pole control circuits 250A 1/2 cycle inrush	
Ratings	120V-240VAC@30A	
Ground Fault Measure- ment	OmA 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 indica- tion	
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 indica- tors 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	

Features

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



## Ordering Information

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.

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