

TRACEMATE™

The only thermostat
you will ever need

The TraceMate™ from Nextron Limited A Powell Canada Company meets all your heat tracing control and monitoring needs in one convenient, compact and economically priced package

The TraceMate™ from Nextron, is an advanced electronic thermostat designed for indoor or outdoor use in non-hazardous, general purpose areas, or for use in hazardous Class I, Division 2/ Zone II areas. TraceMate™ not only controls and monitors the temperature but also monitors your heat trace system for current and ground leakage. The TraceMate™ is compatible with every type of electric heat trace and tubing bundle available.

TraceMate™ is a complete package and comes with a built-in Ground Fault Protection Device (GFPD), eliminating the need for separate ground fault breaker panels or the associated costs of installation.

Temperature sensing is accomplished through the use of the included 100-ohm, 3-wire platinum RTD, which you can mount on the pipe, or use for ambient sensing.

TraceMates™ outstanding reliability ensures that your time is spent producing, not trouble-shooting. A comprehensive ALARM PACKAGE provides quick fault detection and the Ground Fault Trip provides optimal performance and safety. Spotting alarm conditions is easy with TraceMate's™ SYSTEM OK NO FAULT green LCD alarm light on the front door. And with TRACECHECK™, you can be sure your heat tracing is working when you need it because the feature exercises dormant lines every 24 hours for early warning for shutdown prevention.

TraceMate™ controls a temperature range of -50 °C to 500 °C (-58 °F to 932 °F) within ± 2 °C (± 3.6 °F) using solid-state controls and microprocessor driven commands. The digital temperature setpoints offer fast, precise settings over a wide range. No mechanical thermostat can come close to matching TraceMate's™ performance. The unit is self-contained and easy to install with no special maintenance staff training or special tools required.

By combining control, system monitoring and testing requirements of a heat trace controller in a single package, TraceMate™ offers you significant low-cost system upgrades and a controller that can be customized to meet your specific requirements.

TRACEMATE™ ADVANTAGES

- EARLY WARNING
 - TraceCheck™
 - Alarm Status Indicators
 - Separate fail-safe alarms, local and remote
- SYSTEM FAULT ALARM PACKAGE
- REMOTE MONITORING
 - Form C alarm dry contact output for digital alarm interface
- AVAILABLE IN:
 - 120 VAC
 - 208-240 VAC
 - 277 VAC
- HAZARDOUS or NON-HAZARDOUS AREA USAGE
- BUILT IN GROUND FAULT
- RTD INCLUDED
- LOW INSTALLED COST

A Quality Company



ISO 9001 QMI-SAI GLOBAL REGISTERED



TRACEMATE™

FEATURES AND BENEFITS

Temperature Control

0°C to 511°C / 0°F to 511°F setpoint
Non-ambiguous,
digital temperature setpoint
100-ohm platinum RTD* sensor
3-wire, lead resistance compensation

System Fault Alarms

Breaker off or tripped
Heater continuity or low current
Ground fault trip
Low temperature
High temperature
Sensor fault

Early Warning

TraceCheck 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

Remote Monitoring

Form C dry alarm contact for PLC or remote alarm indication
LED Alarm indicator viewable on door

Hazardous / Non-hazardous

Area Usage

CSA approved for non-hazardous or Class I, Division 2,
Groups A, B, C, D / Zone II hazardous area
Operating range
-40°C to +50°C / -40°F to +122°F
30 Amps @ 120, 208 or 240, & 277 VAC rating
Weatherproof, NEMA-4X enclosure
Easy retrofit replacement for mechanical thermostat

Low Installed Cost

Competitively priced
Self contained, no control panel to build
Ground fault trip eliminates expensive ground fault circuit breaker
Standard model simplifies spare parts stocking

TEMPERATURE RANGE

Range -50°C to 500°C, -58°F to 932°F
Hysteresis ±2°C, ±3.6°F
Absolute Accuracy 2.5°C, 4.5°F
Repeatability ±1°C, ±1.8°F
RTD* 100-ohm platinum, 3-wire
20 ohms maximum lead resistance

HEATER SWITCHING

Configuration Single-pole 120 VAC & 277 VAC
Dual-pole 208-240 VAC & 277 VAC
Dual SCR per phase
Ratings Single-pole 120 VAC & 277 VAC @ 30 Amps
Dual-pole 208-240 VAC & 277 VAC @ 30 Amps
Protection Control power from heater voltage protected by 2A fuse
MOV transient protection

CONTROL POWER

Power Control power from heater voltage
Requirements Single-pole 120 VAC & 277 VAC, 10VA
Dual-pole 208-240 VAC & 277 VAC, 10VA
Protection Control power from heater voltage protected by 2A fuse
MOV transient protection and RC snubber

USER INTERFACE

Heater Setpoint 12 position dip switch
Reset/Heater Test Dip switch
Panel Indicators Power on
Heater on
Low temperature alarm
High temperature alarm
Current fail alarm
Ground fault trip alarm
RTD fail alarm

ENVIRONMENT

Approvals CSA NRTL/C US / C and FM
Class I, Division 2, Groups A, B, C, D
Class I, Zone II, Groups IIC
Operating Range -40°C to +50°C / -40°F to +122°F
Heater current derated

USER-DEFINABLE OPTIONS

Heater Setpoint =
< Low Temperature Alarm Setpoint:
< High Temperature Alarm Setpoint:
0°C to 511°C, 1°C steps
0°F to 511°F, 1°F steps
Temperature Units 0°C or °F
Current Fail Alarm Setpoint 0.0A - 30.0A, 0.1 A steps
Ground Fault Trip Alarm Setpoint 0mA - 511mA, 1mA steps

ENCLOSURE

Type NEMA-4X steel, powder coat painted (black)
Size Single-pole: 8"H x 6"W x 4"D
Dual-pole: 10"H x 8"W x 4"D
Features Quick release latches to open door
One 3/4" conduit knockout for power and two 1/2" conduit knockouts for RTD and signal wiring

ALARMS

Low Temperature Actual temperature < low temperature alarm setpoint
High Temperature Actual temperature > high temperature alarm setpoint
Current Fail Heater current < current fail alarm setpoint
Switch Shorted
Ground Fault Trip Ground fault current > Ground fault trip alarm setpoint
RTD Fail RTD Open, RTD Short
Hardware No incoming voltage
TraceCheck Current Fail Alarm
Configuration NC / NO Contacts
Alarm Output Form C Contact: 12-277 VAC/0.5A, 30VDC/0.1A
Rating LED Indicator: 6VDC/50mA

ALARM FUNCTION

Temperature Low Temperature Alarm
High Temperature Alarm
Current Current Fail Alarm
Ground Fault Ground Fault Trip
Hardware RTD Open, RTD Short, Switch Shorted

*Standard RTD Rated to 200°C

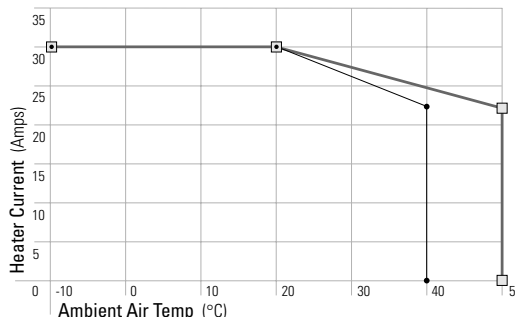


Manufactured by

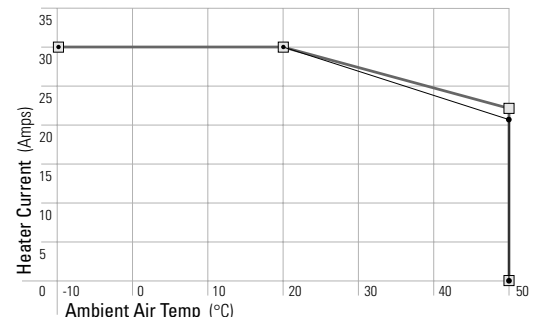
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120 VAC/208-240 VAC HEATER CURRENT RATING 1 (□) and 2 (●) Pole Switching



277 VAC HEATER CURRENT RATING 1 (□) and 2 (●) Pole Switching



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