

The TRACEMATE™

**The only thermostat
you will ever need**

**The new TRACEMATE™ from Nextron Corporation
meets all your heat tracing control and monitoring
needs in one convenient, compact,
competitively priced package.**

The TRACEMATE™ is an electronic thermostat designed for indoor or outdoor use in general purpose non-hazardous or Class 1, Division II / Zone II hazardous areas. It not only controls and monitors the temperature, but also monitors your heating process for current and ground leakage. The TRACEMATE™ is compatible with every type of electronic heat trace and tubing bundle on the market.

Temperature sensing is achieved through a 100-ohm, 3-wire platinum Resistance Temperature Detector (RTD*) mounted on the pipe. Wiring costs are minimized by installing the TRACEMATE™ close to the pipe or vessel being traced. The TraceMate can also be installed remotely from the pipe.

The TRACEMATE™ comes complete with a built-in Ground Fault Protection Device (GFPD), eliminating 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 identification and a ground fault trip for optimal performance and safety. Spotting fault conditions is easy with the TraceMate's SYSTEM OK NO FAULT green LCD alarm light on the front door. You can also use the NO/NC alarm contacts to send a signal to a remote location.

The TRACEMATE™ 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 easy to install, with no special maintenance staff training required.

By combining the control, system monitoring and testing requirements of a heat trace control system into a single package, the TRACEMATE™ facilitates significant, low-cost system upgrades. It is also readily customizable to meet your specific system requirements.

*Standard RTD Rated to 200°C

A QUALITY COMPANY



ISO 9001 REGISTERED



TRACEMATE™ ADVANTAGES

- Temperature Control
- System Fault Alarm
- Early Warning
- Remote Monitoring
- Hazardous / Non-hazardous Area Usage
- Low Installed Cost
- Available in:
120 VAC
208 – 240 VAC
277 VAC

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

DC or AC alarm output for PLC or remote alarm indication
LED Alarm indicator viewable on door

Hazardous / Non-hazardous

Area Usage

CSA approved for non-hazardous or Class 1, Division II,
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 II, 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°C, 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 E5: 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 Switch Shorted
Current Fail Alarm
Configuration NC Contacts
Alarm Output AC Contact: 12-240 VAC @ 0.5A maximum
DC Contact: 30VDC/0.1A, 500mW maximum
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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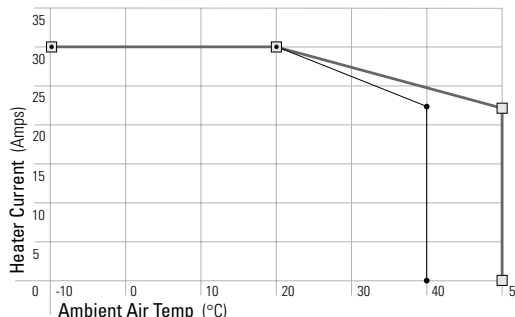
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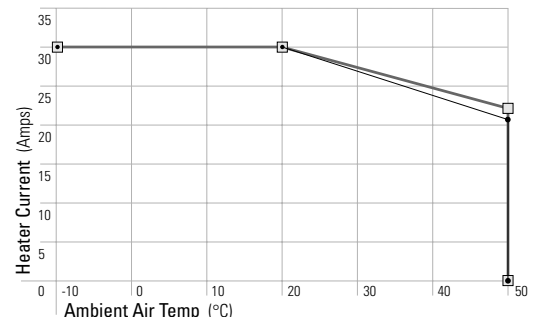
WEBSITE www.nextron.ca



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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