

TraceMate™ Series

HEAT TRACE CONTROLLERS

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 Useage

Built-in Ground Fault

RTD Included

Low Installed Cost

TraceMate II-CTR™ FEATURES

2-Circuit Monitoring and Control

2 RTD Sensors (included)

Liquid Crystal Display (LCD)

Early Warning System

- TraceCheck™
- Alarm status indicators
- Separate fail-safe alarms, local and remote

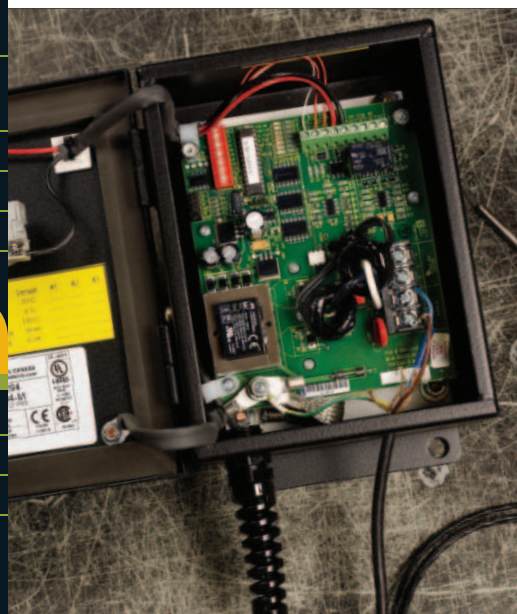
System Fault Alarm Package

Compatible for

Laptop Programming

TraceMate™ Series Controllers from Nextron meet all your heat tracing control and monitoring needs in one convenient, compact and economically priced package.

TraceMate™ Series Controllers from Nextron are advanced electronic thermostats 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™ Series Controllers not only control and monitor temperature but they also monitor your heat trace system for current and ground leakage. TraceMate™ Series Controllers are compatible with every type of electric heat trace and tubing bundle available.

All TraceMate™ Series Controllers are complete packages that come with a built-in Ground Fault Protection Device (GFPD), eliminating the need for separate ground fault breaker panels and their associated costs of installation. Temperature sensing is through the included 100-ohm, 3-wire platinum RTD, which you can mount on the pipe, or use for ambient sensing.

With TraceCheck™, a feature of the controllers, 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.



SAI GLOBAL

TraceMate™ Series

TraceMate™ Series Controllers provide outstanding reliability ensuring that your time is spent producing, not troubleshooting. Comprehensive ALARM PACKAGES provide quick fault detection, and the Ground Fault Trip provides optimal performance and safety.

TraceMate™ Series Controllers have a temperature range of -50°C to 500°C (-58°F to 932°F) within $\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) 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™ performance. The units are 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™ Series Controllers offer you significant low-cost system upgrades and a controller that can be customized to meet your specific requirements.

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
Low temperature / high temperature
Ground fault trip / 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, and 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: $\pm 2^\circ\text{C}$, $\pm 3.6^\circ\text{F}$
Absolute Accuracy: 2.5°C, 4.5°F
Repeatability: $\pm 1^\circ\text{C}$, $\pm 1.8^\circ\text{F}$
RTD:* 100-ohm platinum, 3-wire
20 ohms maximum lead resistance

HEATER SWITCHING

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

CONTROL POWER

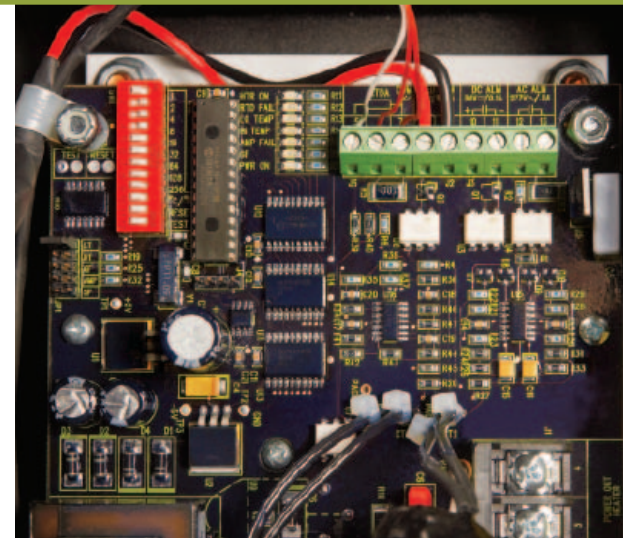
Power: Control power from heater voltage
Requirements: Single-pole 120 VAC and 277 VAC, 10VA
Dual-pole 208-240 VAC and 277 VAC, 10VA
Protection: Control power from heater voltage protected by 2A fuse
MOV transient protection and RC snubber

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°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: 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 knocks 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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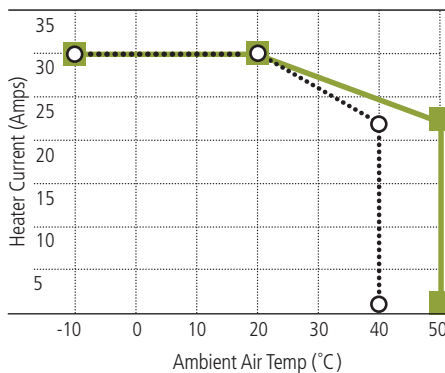
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TraceMate™ Heater Current Ratings

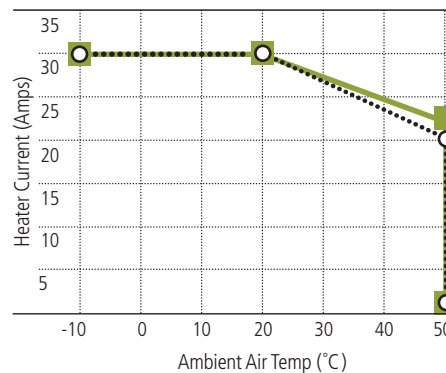
120 VAC/208-240 VAC Heater Current Rating

■ 1-Pole Switching ○ 2-Pole Switching



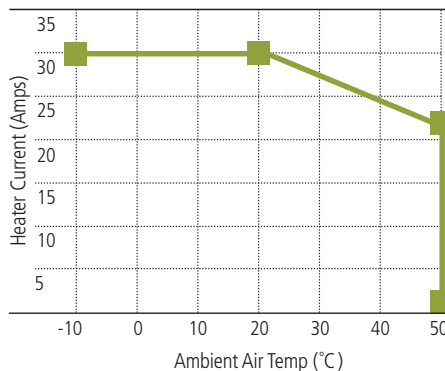
277 VAC Heater Current Rating

■ 1-Pole Switching ○ 2-Pole Switching



TraceMate II-CTR™ Heater Current Ratings

Heater Current Rating



Scan this code for
more information.

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