

Introducing the **TRACEMATE II-CTR™**

The **ULTIMATE** in two-circuit heat trace monitoring and hand-held digital programming control



We've taken our proven heat trace monitoring technology and added the convenience of hand-held digital programming -all in one compact, cost-effective TRACEMATE II-CTR package.

The **TRACEMATE II-CTR™** is a comprehensive electronic thermostat system that offers a low-cost solution to two-circuit heat control and monitoring, while also monitoring your heat process for current and ground leakage. The system is designed for indoor or outdoor use in non-hazardous or Class 1, Division 11, Groups A, B, C, D or Zone 11 hazardous areas.

Based on the outstanding reliability of Nextron's proven technology, the TRACEMATE II-CTR™ offers advanced monitoring features including an LCD display along with convenient programming capabilities. The system uses a Personal Digital Assistant (PDA) for programming the unit through a RS-232 connection. Specialized software is downloaded into the PDA for field communication to the thermostat unit, or for laptop programming.

The system can be easily customized to meet your specific system requirements. It is self-contained, easy to configure and easy to install. When combined with hand-held digital programming control, the TRACEMATE II-CTR™ combines convenience with the ultimate in performance.



A QUALITY COMPANY



ISO 9001 REGISTERED

TRACEMATE II-CTR™ FEATURES

- 2-circuit monitoring and control
- 2 RTD sensing
- Liquid Crystal Display (LCD)
- PDA and Laptop programming

TRACEMATE II-CTR™

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
Form C dry contact alarm output
LCD display on the front door

Hazardous / Non-hazardous Area Usage

CSA and FM 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 @ 120/277 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, ±3.2°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, one SCR per heater
Ratings	120/277 VAC @ 30 Amps 250 Amp 1/2 cycle inrush
Line Frequency	50 or 60 HZ

CONTROL POWER

Power Requirements	Control power from heater voltage 120/277 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
LCD Display	Heater status and setpoint values
RS232 Port	PDA and Laptop programming

ENVIRONMENT

Approvals	CSA NRTL / C and FM Class I, Division II, Groups A, B, C, D Class I, Zone II, Groups IIC
Operating Range	120/277V: -40°C to +50°C / -40°F to +122°F (LCD display: -20°C to +50°C / -4°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	0.0 A - 30.0A, 0.1 A steps
Ground Fault Trip Alarm Setpoint	0mA - 511mA, 1mA steps

ENCLOSURE

Type	Nema-4X steel, powder coated painted (black)
Size	10"H x 8"W x 4"D
Features	Quick release latches to open door One 1.687" conduit knockout for power and Two 0.843" conduit knocks for RTD wiring One 0.875" conduit knocks for signal wiring One 0.610" conduit knocks for RS232 communication

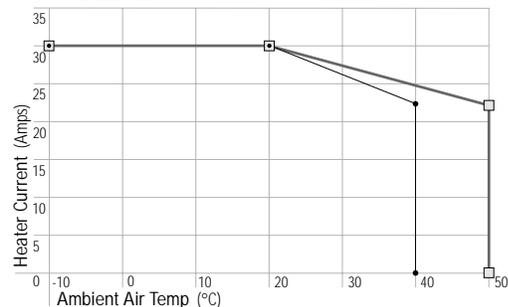
ALARMS

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
Rating	DC Contact: 30VDC/0.1A, 500mW maximum LED Indicator: 6VDC/50mA Form C Contact: 12-277 VAC/0.5A, 30VDC/0.1A

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

HEATER CURRENT RATING 2 Pole Switching



Manufactured by

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