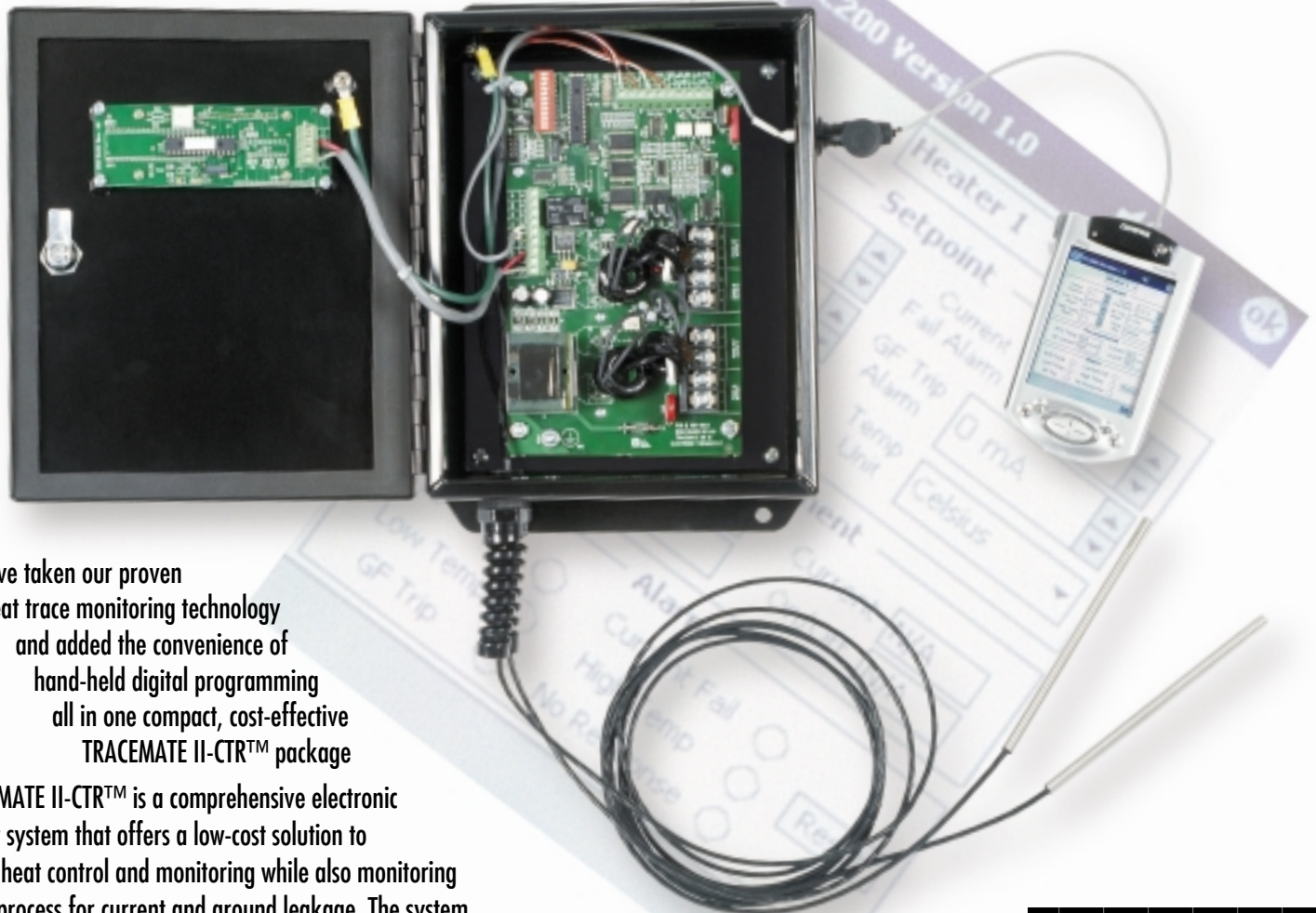


TRACEMATE II-CTR™

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 I, Division 2, Groups A, B, C, D or Zone II 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 unit can be programmed by a 12-point dipswitch located on the printed circuit board, or by laptop programming.

Specialized software is downloaded into compatible PDA devices for field communication to the thermostat unit, or for laptop programming.

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



A QUALITY COMPANY



ISO 9001 QMI-SAI GLOBAL REGISTERED

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 PDA or 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 approved for non-hazardous or Class 1, 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 @ 120/277 VAC rating
Weatherproof, NEMA-4 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, or Dual Pole, one SCR per phase
Ratings 120/277 VAC @ 30 Amps; 208/240VAC@30Amps
250 Amp 1/2 cycle inrush
Line Frequency 50 or 60 HZ

CONTROL POWER

Power Control power from heater voltage
Requirements 120/208/240/277VAC, 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 Compatible PDA or Laptop programming

ENVIRONMENT

Approvals CSA C US
Class I, Division 2, 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-4 steel, powder coated painted (black)
Size 10"H x 8"W x 4"D
Features Quick release latches to open door
One 3/4" conduit knockout for power wiring
Two 3/8" or 1/2" conduit knockouts for RTD wiring
One 3/8" or 1/2" conduit knockout for signal wiring
One 0.610" knockout for RS232 communication

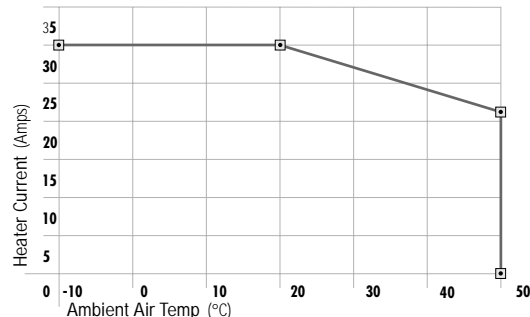
ALARMS

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
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



Manufactured by

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