

Specifications

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 10 ohms maximum lead resistance

Heater Switching

Installation/Overvoltage CAT. III; Pollution Degree 2
 Configuration TM-2SIH1-RTD: Single-pole
 TM-2SIH1-RTD-240V: Single-pole
 TM-2DIH2-RTD-208~240V: Dual-pole
 TM-2SIH1-RTD-277V: Single-pole
 Ratings: TM-2SIH1-RTD: 120Vac @ 30A
 TM-2SIH1-RTD-240V: 240VAC @30A
 TM-2DIH2-RTD-208~240V: 208~240VAC @30A
 TM-2SIH1-RTD-277V: 277VAC @30A
 250 amp 1/2 cycle inrush
 Line Frequency 50 or 60Hz

Control Power

Installation/Overvoltage CAT. III; Pollution Degree 2
 Power Requirements Control power from heater voltage
 TM-2SIH1-RTD: 120VAC, 10VA
 TM-2SIH1-RTD-240V: 240VAC, 10VA
 TM-2DIH2-RTD-208~240V: 208~240VAC, 10VA
 TM-2SIH1-RTD-277V: 277VAC, 10VA
 Protection Control power from heater voltage protected by non-replaceable 2A, time lag, 350 VAC fuse
 MOV transient protection and RC snubber

User Interface

DIP Switch & Jumper Change setpoints, Reset alarm, Heater test
 Panel Indicators Power on, Heater on, Low temperature alarm, High temperature alarm, Current fail alarm, Ground fault trip alarm, RTD fail alarm
 LCD Display A comprehensive display of system measurements, setpoint values, heater on/off and alarm status
 RS232 Port Accessible to PDA, Laptop, PC

Environment

Approvals: TM-2SIH1-RTD: CSA & FM
 TM-2SIH1-RTD-240V: CSA & FM
 TM-2DIH2-RTD-208~240V: CSA
 TM-2SIH1-RTD-277V: CSA & FM
 Class I, Div.2, Groups A,B,C,D
 Class I, Zone 2, Groups IIC
 Operating Range: TM-2SIH1-RTD: -40°C to +50°C
 TM-2SIH1-RTD-240V: -40°C to +50°C
 TM-2DIH2-RTD-208~240V: -40°C to +50°C
 TM-2SIH1-RTD-277V: -40°C to +50°C
 (LCD display: -20°C to +50°C)
 Heater current derated

Conformal Coating: Boards conformal coated for hostile environments. Altitude: 0-2000m

User-Definable Options

Heater Setpoint:
 Low Temperature Alarm Setpoint:
 High Temperature Alarm Setpoint:
 0°C-511°C, 1°C steps
 0°F-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, 1 mA steps

Enclosure

Type: Nema-4 steel, painted black
 Size: TM-2SIH1-RTD: 10"Hx8"Wx4"D
 TM-2SIH1-RTD-240V: 10"Hx8"Wx4"D
 TM-2DIH2-RTD-208~240V: 10"Hx8"Wx4"D + 1 extra heatsink (3.5"x4.761"x1.9") on the left
 TM-2SIH1-RTD-277V: 10"Hx8"Wx4"D
 Features: Quick release latches to open door
 One 1.125" conduit knockout for power, two 0.843" conduit knocks for RTD wiring, one 0.875" conduit knock for signal wiring, one 0.610" conduit knock for RS232 communication.

Alarms

Installation/Overvoltage CAT. II; Pollution Degree 2
 Low Temperature: Actual temperature < low temperature alarm setpoint **if the alarm is enabled**
 High Temperature: Actual temperature > high temperature alarm setpoint
 Current Fail: Heater current < current fail alarm setpoint
 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 Contacts
 Alarm Output Rating: AC contact: 12-277Vac@ 0.5A max. 50/60 Hz, CAT. II
 DC contact: 30Vdc/0.1A, 500mW max.
 Form C dry contact: 12- 277VAC/0.5A, 30VDC/0.1A.

**TraceMate II-CTR
 Heater Current Rating**

