



DATA SHEET



TRACON MODEL GPT 130

Single-point general purpose heat–trace control

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Description

The GPT 130

Heat–Trace Control is a single–point microprocessor–based heat–trace control thermostat. It is ideal for applications which require Ground– Fault Equipment Protection (GFEP). Ideal uses include freeze protection, hot water temperature maintenance, grease line trace, tank heating, and other temperature monitoring and control applications.

The GPT 130 Heat–Trace Control operates from the heater's power source. A universal power supply allows the GPT 130 to operate from 100 V ac to 277 V ac, and control a resistive load up to 30 A.

Adjustable Temperature Setpoint and Alarms

The temperature setpoint is adjustable from -99.9 °F to 999 °F (-73.3 °C to 537.7 °C) to a tenth degree resolution.

Sensor Inputs

The GPT 130 comes with a 100K ohm thermistor temperature sensor with a 20 ft. jacketed cable. The included sensor has an operating range of $-40\,^{\circ}\text{F}$ to 230 $^{\circ}\text{F}$ ($-40\,^{\circ}\text{C}$ to 110 $^{\circ}\text{C}$). The GPT 130 can also can also use a 3-wire RTD sensor for systems requiring high-temperature sensing.

Precision Monitoring and Control

The GPT 130 monitors temperature, load current, and ground leakage current. Alarms include high temperature, low temperature, high load current, low load current, ground fault, sensor fault, internal fault, and power fail. These alarms are easy to adjust and observe from the front panel. The GPT 130 can be set to energize or de-energize the heaters during a sensor fault.

Ground-Fault Equipment Protection

The GPT 130 Heat–Trace Control includes integral GFEP. This eliminates the extra expenses associated with having to provide separate GFEP components in the circuit panel. The GPT 130 normally disconnects power immediately when ground fault current exceeds the set value. If it is set to Fire Protect mode, for critical fire protection systems, then it will generate the alarm but power will be maintained to prevent freezing.

Automatic GFEP Circuit Self-Test

To ensure continued safe operation, the GPT 130 performs a self–test of the GFEP circuit when power is first applied, along with a load ground fault test, and this repeats periodically thereafter at an adjustable interval. For complete information describing its application, installation, and features, please contact Customer Service or check on the web at networketi.com.

Specifications

Cover Attachment:

| General | |
|------------------------------|--------------------------------------|
| Certifications: | UL 60730-1, UL 1053, |
| | CSA E60730-1:13 |
| Environmental | |
| Area of use: | Nonhazardous locations |
| Operating Temperature Range: | -40 °F to 131 °F (-40 °C to 55 °C) |
| Enclosure | |
| Dimensions: | 8 1/8" (W) x 5 1/2" (H) x 4 3/8" (D) |
| | 207 mm (W) x 140 mm (H) |
| | x 112 mm (D) |
| Ingress Protection: | NEMA 4X, IP66 |

Polycarbonate cover, plastic screws

| Cable Entries: | Two liquid—tight cable glands installed for sensor and alarm leads, cable diameter 0.08" to 0.24" (2 mm to 6 mm) One 1.046" hole to accommodate a 3/4" conduit fitting for power wiring connection |
|----------------|--|
| Material: | Polycarbonate |
| Weight: | 2.7 lb. (1.22 kg) |
| Mounting: | Wall mount with flanges |
| | |

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| Wiring Terminal Ratings | |
|----------------------------------|---|
| Power: | Barrier Strip Terminals for Line, Neutral, and Ground; use 10 AWG wires rated for at least 194 °F (90 °C) |
| Sensors: | Terminal Block, rising cage clamp, 12–28 AWG leads |
| Alarm relay: | Terminal Block, rising cage clamp, 12–28 AWG leads |
| Parameter Settings | |
| Temperature Setpoint Heat ON: | Adjustable –99.9 °F to 999 °F (–73.3 °C to 537.7 °C) Default 38 °F (3.33 °C) |
| Temperature Setpoint Heat OFF: | Adjustable –99.9 °F to 999 °F (–73.3 °C to 537.7 °C) Default 40 °F (4.44 °C) |
| Low–Temperature Alarm Threshold | : –99.9 °F to 999 °F (–73.3 °C to 537.7 °C) Default 35 °F (–1.7 °C) Disabled |
| Low-Temperature Alarm Delay: | 0 s to 3000 s Default 300 s |
| High–Temperature Alarm Threshold | d: –99.9 °F to 999 °F (–73.3 °C to 537.7 °C) Default 140 °F (60 °C) Disabled |
| High-Temperature Alarm Delay: | 0 s to 3000 s Default 300 s |
| Low-Current Alarm Threshold: | 0.0 A to 10.0 A Default 0.1 A Enabled |
| Low-Current Alarm Delay: | 0 s to 300 s Default 5 s Enabled |
| High-Current Alarm Threshold: | 0.0 A to 55.0 A Default 30.0 A Disabled |
| High-Current Alarm Delay: | 0 s to 600 s Default 300 s |
| Ground Fault Limit Current: | 1.0 mA to 300.0 mA Default 30 mA |
| Self–Test Interval: | 1 h to 250 h Default 24 h Enabled |
| Temperature Unit: | °F or °C Default °F |
| User Interfaces | |
| Pushbuttons: | UP, DOWN, ENTER, TEST / RESET BACK |
| DIP switches: | Panel lockout |
| Remote Interface | |
| Alarm Relay: | Isolated SPDT 1 AMP Class 2 contact |
| Indicators | |
| Status Indicator: | Power (Green) Heater (Yellow) Low Temperature (Blue) Summary alarm (Red) |
| Display: | 2.7" OLED graphic |

128x64 Low temperature

Summary Alarm Relay Reporting: Low temperature High temperature Low load current High load current High ground fault current Stuck relay Sensor fault Internal fault **Control Ratings** Temperature Accuracy: +/-2 °F (1 °C) **Temperature Sensors** (Included) Thermistor: Temperature inputs: 100k ohms at 25 °C,range -40 °F to 230 °F (-40 °C to 110 °C), 20ft Lead (25076) RTD Sensor: Platinum, Alpha = 0.00385, ITS-90, 100 ohms at 0 °C Input supports 3-wire connection Sensor operates at 1 mA **GFEP (Ground-Fault Equipment Protection)** Operation: Continuously tests ground fault current whenever the load is on; also manually and periodically tests equipment ground fault current with each self-test. Adjustable 1 mA to 300 mA, Range Default 30 mA Automatic Self-Test: Verifies GFEP functionality every 24 hr. and whenever the load is energized **Power** Supply Voltage: 100 - 277 V ac 50/60 Hz Controller Power Consumption: 5 W maximum, 2 W idle

30 A, 100 - 277 V ac resistive

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Load Rating:

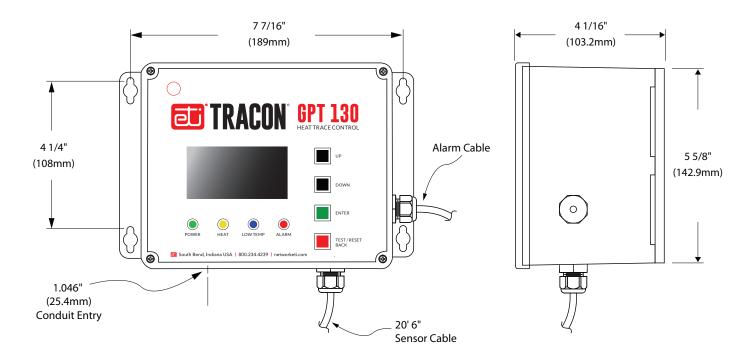




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Dimensional Drawings



Ordering Information

| Part Number | Description |
|-------------|---|
| 25170 | Tracon MODEL GPT 130 Single-Point General Purpose Heat–Trace Control |
| 25076 | Temperature Sensor |
| 25239 | TRACON MODEL GPT-130 Data Sheet (this document) available online at: networketi.com/product-manuals |

Limited Warranty

ETI's two year limited warranty covering defects in workmanship and materials applies. Contact Customer Service for complete warranty information.

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Contacting Customer Service

For assistance, contact Customer Service. Office hours are from 8:00 AM until 5:00 PM ET.

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