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DATA SHEET







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 °F to 230 °F (-40 °C to 110 °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.

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.

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UL 60730-1, UL 1053, CSA E60730-1:13

-40 °F to 131 °F (-40 °C to 55 °C)

8 1/8" (W) x 5 1/2" (H) x 4 3/8" (D)

Polycarbonate cover, plastic screws

alarm leads, cable diameter

for power wiring connection

Wall mount with flanges

Adjustable -99.9 °F to 999 °F

0.08" to 0.24" (2 mm to 6 mm)

207 mm (W) x 140 mm (H) x 112 mm (D)

Two liquid-tight cable glands installed for sensor and

One 1.046" hole to accommodate a 3/4" conduit fitting

Barrier Strip Terminals for Line, Neutral, and Ground;

use 10 AWG wires rated for at least 194 °F (90 °C)

Terminal Block, rising cage clamp, 12-28 AWG leads

Terminal Block, rising cage clamp, 12-28 AWG leads

Nonhazardous locations

NEMA 4X, IP66

Polycarbonate

2.7 lb. (1.22 kg)

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SPECIFICATIONS

GENERAL Certifications

ENVIRONMENTAL Area of use Operating temperature range

ENCLOSURE Dimensions

Ingress protection Cover attachment Cable entries

Material Weight Mounting

WIRING TERMINAL RATINGS Power

Sensors

Alarm relay

PARAMETER SETTINGS

Temperature setpoint heat ON Temperature setpoint heat OFF Low-temperature alarm threshold Low-temperature alarm delay High-temperature alarm delay High-temperature alarm delay Low-current alarm threshold Low-current alarm threshold Low-current alarm threshold High-current alarm delay Ground fault limit current

(-73.3 °C to 537.7 °C) Default 38 °F (3.33 °C) Adjustable -99.9 °F to 999 °F (-73.3 °C to 537.7 °C) Default 40 °F (4.44 °C) -99.9 °F to 999 °F (-73.3 °C to 537.7 °C) Default 35 °F (-1.7 °C) Disabled 0 s to 3000 s Default 300 s -99.9 °F to 999 °F (-73.3 °C to 537.7 °C) Default 140 °F (60 °C) Disabled 0 s to 3000 s Default 300 s 0.0 A to 10.0 A Default 0.1 A Enabled 0 s to 300 s Default 5 s Enabled 0.0 A to 55.0 A Default 30.0 A Disabled 0 s to 600 s Default 300 s 1.0 mA to 300.0 mA Default 30 mA 1 h to 250 h Default 24 h Enabled °F or °C Default °F

USER INTERFACES Pushbuttons

DIP switches

REMOTE INTERFACE Alarm relay

INDICATORS Status indicator

Display Summary alarm relay reporting UP, DOWN, ENTER, TEST / RESET BACK Panel lockout

Isolated SPDT 1 AMP Class 2 contact

Power (Green) Heater (Yellow) Low Temperature (Blue) Summary alarm (Red) 2.7" OLED graphic 128x64 Low temperature Low temperature High temperature Low load current High load current High ground fault current Stuck relay Sensor fault Internal fault

+/- 2 °F(1 °C)

TEMPERATURE SENSORS

Temperature inputs

CONTROL RATINGS

Temperature accuracy

(Included) Thermistor: 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 Range Automatic self-test 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, Default 30 mA Verifies GFEP functionality every 24 hr. and whenever the load is energized

POWER

Supply voltage Controller power consumption Load rating 100 – 277 V ac 50/60 Hz 5 W maximum, 2 W idle 30 A, 100 – 277 V ac resistive

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Self-test interval

Temperature Unit

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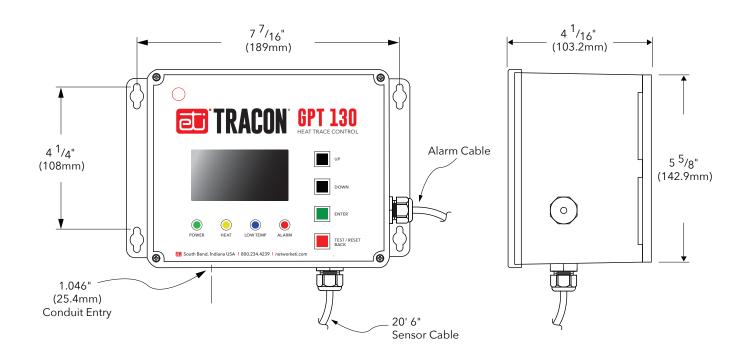
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