DELTA-THERM CORPORATION® BRITECH By: INNOVAIR SOLUTIONS

DATA SHEET

TRACON MODEL FPT 130

Single–point freeze protection heat–trace control

We Manage Heat®

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, and other temperature monitoring and control applications.

The FPT 130 Heat–Trace Control operates from the heater's power source. A universal power supply allows the FPT 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 30 °F, 38 °F, 45 °F, or 50 °F (–1.1 °C, 3.3 °C, 7.2 °C, or 10 °C) to a tenth degree resolution.

Sensor inputs

The FPT 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).

Precision monitoring and control

The FPT 130 monitors temperature, load current, and ground leakage current. Alarms include low temperature, low load current, ground fault, sensor fault, internal fault, and power fail. These alarms are pre-set and easy to observe from the front panel.

Ground–fault equipment protection

The FPT 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 FPT 130 normally

disconnects power immediately when ground fault current exceeds 30 mA. 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 FPT 130 performs a self–test of the GFEP circuit when power is first applied, along with a load ground fault test, and this test repeats every 24 hours while power is applied if the load has not been energized.

For complete information describing its application, installation, and features, please contact Customer Service or check on the web at networketi.com.

Ordering Information

Order Number	Description
25169	Tracon MODEL FPT 130 Single-Point Freeze Protection Heat–Trace Control
25076	Temperature Sensor

FPT 130 Specifications

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
Cover Attachment:	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.

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 Setpoints:	30 °F, 38 °F, 45 °F, or 50 °F (–1.1 °C, 3.3 °C, 7.2 °C, or 10 °C)
Low–Temperature Alarm Threshold:	(3.3 °C, 7.2 °C, or 10 °C) setpoints 28 °F (-2.2 °C) for 30 °F (-1.1 °C) setpoint
Low–Current Alarm Threshold:	0.1 A
Low–Current Alarm Delay:	5 s
Ground Fault Limit Current:	30 mA
Self–Test Interval:	24 h

User Interfaces

Pushbuttons:	Test / Reset
DIP Switches:	Temperature setpoint Thermistor fault mode Fire protection mode

Remote Interface

Alarm Relay:	Isolated SPDT 1 AMP Class 2 contact

Indicators

Status Indicator:	Power to the unit (Green solid) Calibration error (Green blinking) Call for heat (Yellow solid) Low current alarm (Yellow blinking) Stuck relay (Yellow blinking fast) Low temperature (Blue solid) Sensor fault (Blue blinking) Ground fault (Red solid) GFEP circuit failure (Red blinking)
Summary Alarm Relay Reporting:	Low load current High ground fault current Sensor fault Internal fault

Control Ratings

Temperature Accuracy:	+/– 2 °F (1 °C)

Temperature Sensors

Temperature Inputs:	(Included) Thermistor, 100k ohms at 25 °C, range –40 °F to 230 °F (–40 °C to 110 °C), 20ft Lead (25076)

GFEP (Ground–Fault Equipment Protection)

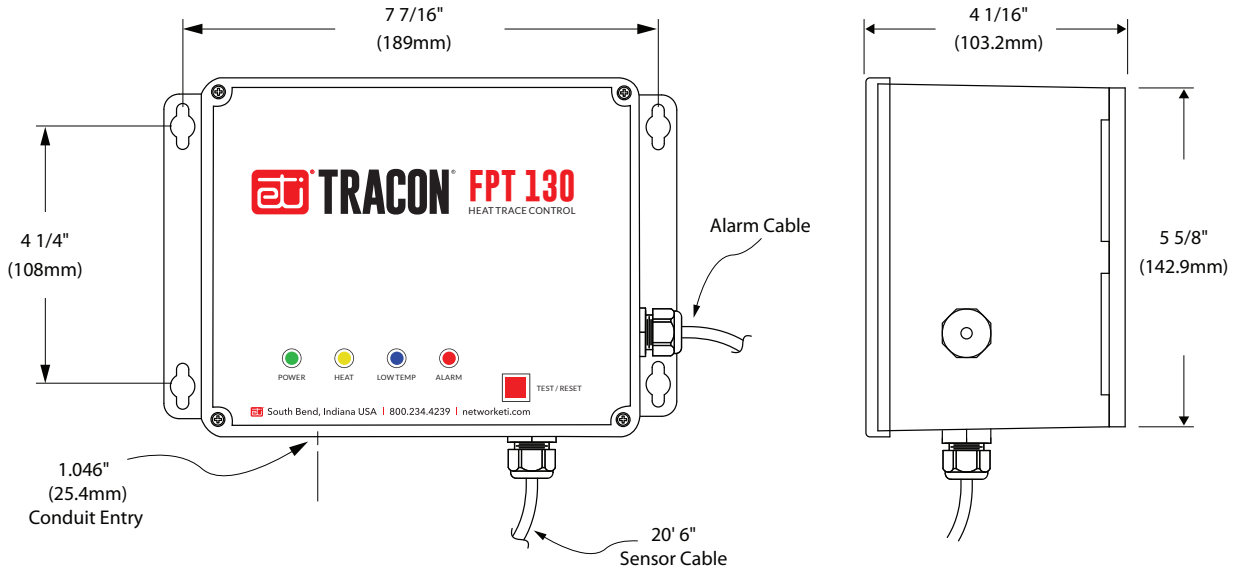
Threshold:	30 mA
Automatic Self–Test Range:	Verifies GFEP functionality every 24 hr. and when the load is turned on

Power

Supply Voltage:	100 – 277 V ac 50/60 Hz
Controller Power Consumption:	5 W maximum, 2 W idle
Load Rating:	30 A, 100 – 277 V ac resistive

Specifications are at 77 °F (25 °C) unless otherwise stated and are subject to change without notice.

Dimensional Drawings



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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