The FPT 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, 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.

**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.

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

General
Certifications UL 60730–1, UL 1053, CSA E60730–1:13

Environmental
Area of use Nonhazardous locations
Operating temperature −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)
NEMA 4X, IP66
Ingress protection Polycarbonate cover, plastic screws
Cover attachment 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 ¾” conduit fitting for power wiring connection
Material Polycarbonate
Weight 2.7 lb. (1.22 kg)
Mounting Wall mount with flanges

Wiring Connector 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 threshold 32 °F (0 °C) for 38 °F, 45 °F, or 50 °F
(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
Pushbutton 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 input (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.

Ordering Information

<table>
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<tr>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>Tracon MODEL FPT 130   Single-Point Freeze Protection Heat–Trace Control</td>
<td>25169</td>
</tr>
<tr>
<td>Temperature Sensor</td>
<td>25076</td>
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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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