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SINGLE-POINT FREEZE PROTECTION HEAT-TRACE CONTROL

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

PART NUMBER	DESCRIPTION
25169	Tracon MODEL FPT 130 Single-Point
	Freeze Protection Heat-Trace Control
25076	Temperature Sensor

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.

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 around 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.

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SPECIFICATIONS

GENERAL Certifications ENVIRONMENTAL Area of use Operating temperature range	UL 60730-1, UL 1053, CSA E60730-1:13 Nonhazardous locations -40 °F to 131 °F (-40 °C to 55 °C)	USER INTERFACES Pushbuttons DIP switches REMOTE INTERFACE Alarm relay	Test / Reset Temperature setpoint Thermistor fault mode Fire protection mode Isolated SPDT 1 AMP Class 2 contact
ENCLOSURE Dimensions Ingress protection Cover attachment Cable entries	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 Polycarbonate cover, plastic screws Two liquid-tight cable glands installed for sensor and alarm leads, cable diameter 0.08" to 0.24" (2 mm to 6 mm)	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)
Material Weight Mounting	One 1.046" hole to accommodate a 3/4" conduit fitting for power wiring connection Polycarbonate 2.7 lb. (1.22 kg) Wall mount with flanges	Summary alarm relay reporting	GFEP circuit failure (Red blinking) Low load current High ground fault current Sensor fault Internal fault
WIRING TERMINAL RATINGS Power	Barrier Strip Terminals for Line, Neutral, and Ground; use 10 AWG wires rated for at least 194 °F (90 °C)	CONTROL RATINGS Temperature accuracy TEMPERATURE SENSORS	+/- 2 °F (1 °C)
Sensors Alarm relay PARAMETER SETTINGS	Terminal Block, rising cage clamp, 12–28 AWG leads Terminal Block, rising cage clamp, 12–28 AWG leads	Temperature inputs	(Included) Thermistor, 100k ohms at 25 °C, range —40 °F to 230 °F (—40 °C to 110 °C), 20ft Lead (25076)
Temperature setpoints	30 °F, 38 °F, 45 °F, or 50 °F (–1.1 °C, 3.3 °C, 7.2 °C, or 10 °C) 32 °F (0 °C) for 38 °F, 45 °F, or 50 °F	GFEP (GROUND-FAULT EQUIPM Threshold	ENT PROTECTION) 30 mA
threshold	(3.3 °C, 7.2 °C, or 10 °C) setpoints 28 °F (-2.2 °C) for 30 °F (-1.1 °C) setpoint	Automatic self-test range	Verifies GFEP functionality every 24 hr. and when the load is turned on
Low-current alarm threshold Low-current alarm delay Ground fault limit current Self-test interval	0.1 A 5 s 30 mA 24 h	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

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

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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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