## Pipe Freeze Protection Controller | PT-DUAL

The PT-DUAL Heat-Trace Control is a dual-point microprocessor-based heat-trace control thermostat. It is ideal for applications which require two independent heater-control Channels with 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.

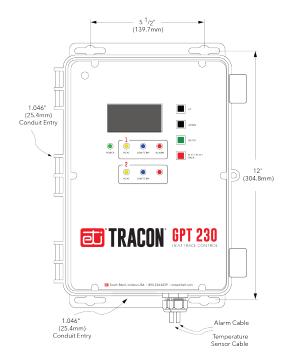
The PT-DUAL Heat-Trace Control operates from the heater's power source. A universal power supply allows the GPT 230 to operate from 100 V ac to 277 V ac. It can independently or jointly control two resistive loads up to 30 amps each.

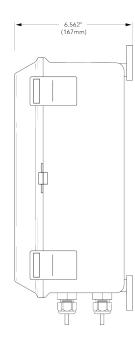


## **Features**

- Dual channel heat trace capabilities allows for complete control and monitoring of two separate channels from one unit
- Adjustable temperature setpoint allows precise control of a wide range of processes
- Can use an NEC Class 2 temperature sensors with up to 2,000 ft. cable for enhanced installation options
- Two Thermistor temperature sensors with 20 ft. cables included for applications of -40 °F to 230 °F (-40 °C to 110 °C)
- RTD input allows higher accuracy and extreme-temperature applications
- The unit can accommodate RTD sensors with 2-, 3-, or 4-wire configuration
- Temperature display for accurate adjusting and monitoring

- Load current display for accurate adjusting and monitoring
- Ground fault current display for accurate monitoring, protection, and alarm
- Adjustable alarm thresholds for excess ground fault current, load current, and temperature
- Alarms indicated with panel display and relay contact for remote signaling
- A Fault Mode setting which can be set to energize or deenergize the heaters during a sensor failure
- Fire Protection Mode maintains heater operation for use in critical fire protection systems
- Durable weather-resistant NEMA 4X IP66 enclosure permits indoor or outdoor installation





## **Specifications**

T
UL 60730–1, UL 1053, CSA E60730–1:13
Nonhazardous Locations
40 °F to 122 °F (–40 °C to 50 °C)
9.0" (W) 12 4/5" x (H) x 5 9/10" (D) 229 mm (W) x 325 mm (H) x 150 mm (D)
NEMA 4X, IP66
Polycarbonate cover
Two liquid-tight cable glands installed for sensor and alarm leads, cable diameter 0.08" to 0.24" (2 mm to 6 mm) Two 1.046" holes to accommodate 3/4" conduit fittings for power wiring connections
Polycarbonate
5.8 lb. (2.63 kg)
Wall mount with flanges
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
UP, DOWN, ENTER, TEST / RESET BACK
RTD wiring configuration, Panel lockout
Adjustable –99.9 °F to 999 °F (–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
Power (Green), Heater (Yellow), Low Temperature (Blue), Summary Alarm (Red)
2.7" OLED graphic 128×64
Low temperature, High temperature, Low load current, High load current, High ground fault current, Stuck relay, Sensor fault, Internal fault
+/- 2 °F (1 °C)
(Included) Two Thermistors: 100k ohms at 25 °C, range –40 °F to 230 °F (–40 °C to 110 °C), 20ft Lead (25076) RTD Sensor (SOLD SEPARATELY): Platinum, Alpha = 0.00385, ITS–90, 100 ohms at 0 °C Input supports 3-wire connection Sensor operates at 1 mA
(25076) RTD Sensor (SOLD SEPARATELY): Platinum, Alpha = 0.00385, ITS-90, 100 ohms at 0 °C Input
(25076) RTD Sensor (SOLD SEPARATELY): Platinum, Alpha = 0.00385, ITS-90, 100 ohms at 0 °C Input
(25076) RTD Sensor (SOLD SEPARATELY): Platinum, Ālpha = 0.00385, ITS-90, 100 ohms at 0 °C Input supports 3-wire connection Sensor operates at 1 mA