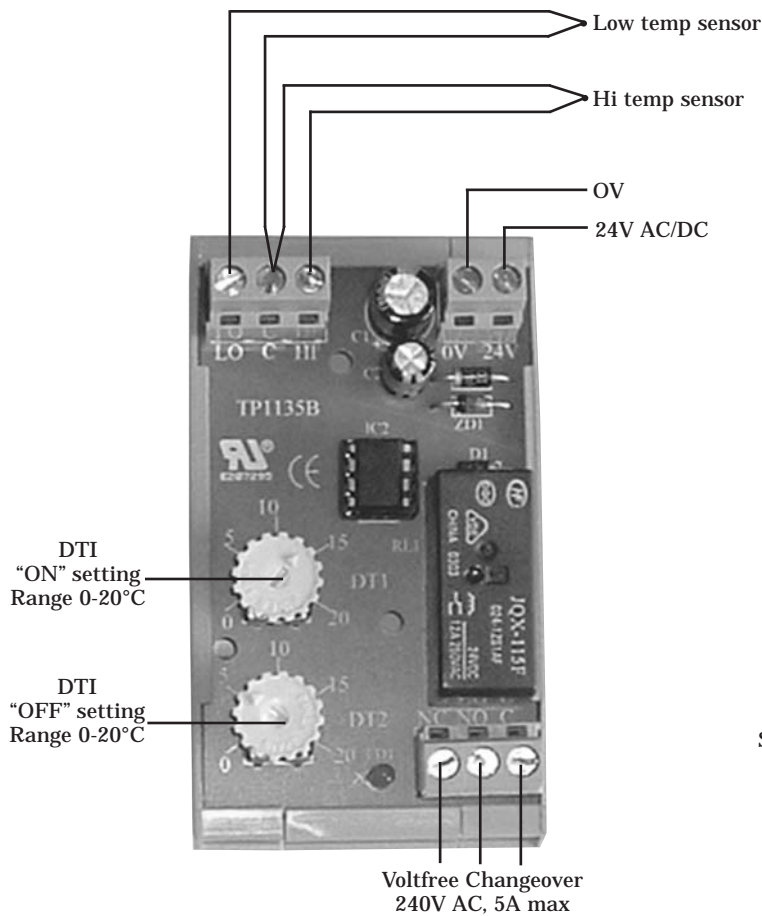


## Temperature Differential Electronic Thermostat: TPES1/D

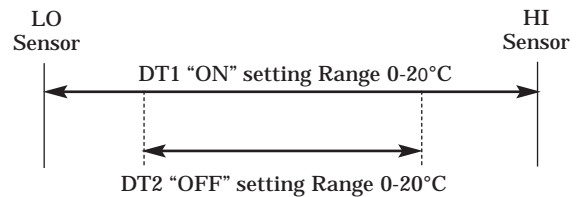


### OPERATION

The TPES1/D electronic thermostat is designed to operate on a differential temperature measurement between two sensors and is ideal for such applications as solar panel control. The highest temperature measurement sensor must always be connected in HI and the low temperature sensor in LO. DT1 setting is the differential switch "ON" (increasing value between the HI & LO sensors with a range of 0-20°C) whilst DT2 setting is the switch OFF point (reducing differential).

The differential settings provide a floating operational control with a minimum switching differential of 1°C. If both setpoints are set at the same value or if DT2 is set to a value above DT1 then the controller defaults to a 1°C switching differential.

Note: - For the controller to operate correctly DT1 (switch ON setting) must always be set at a higher value than the DT2 setting



### DESCRIPTION

The TPES1/D is an electronic temperature differential thermostat which operates on the measured difference of 2 x 10K3A1 Thermister temperature sensors.

The relay switch ON control point is floating on a differential setting ranged 0-20°C with the OFF point also floating on a differential ranged 0-20°C. The minimum switching hysteresis is 1°C. The supply is 24V AC or DC and output is a voltfree changeover contact rated at 240V AC, 5 amp max.

### FEATURES

- \* 24V AC/DC Supply
- \* Voltfree SPCO relay
- \* Differential setpoint On
- \* Differential setpoint Off
- \* Thermister teaperture sensors
- \* LED indication of relay On
- \* DIN Rail Mounting

### SPECIFICATION

Supply	24v AC/DC + 15%
Inputs	2 x 10K3 Thermistor teaperture sensor
Output	Voltfree relay SPCO (240V 5 amp max)
Control Accuracy	+ 0.5°C
Power Consumption	20mA max
Settings	Differential temperature On (0-20°C) DT1 Differential temperature Off (0-20°C) DT2
LED indication	Relay ON
Operating Temperature	-10 to +40°C
Dimensions	82mm high 45mm wide 45mm deep



Measurement Devices for Control Systems

Titan Products Ltd.  
Unit 7 Southside, Bredbury Park Industrial Estate, Bredbury,  
Stockport SK6 2SP England.  
Tel:- 0161 406 6480 Fax:- 0161 494 8309  
E-mail :- admin@titanproducts.com  
Website :- www.titanproducts.com

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