

# T1

## Ex d Pipewall Sensing Thermostat

### Product Specifications

#### Application . . .

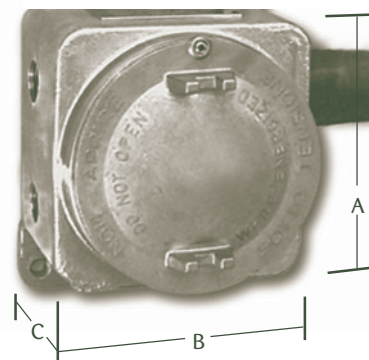
##### Electric Heat Tracing Control

The T1 is designed for use as an adjustable control thermostat for freeze protection and temperature maintenance applications requiring pipewall or tankwall sensing. The T1 is designed to be wall-mounted (or pipe-mounted using Thermon's XP-1 mounting bracket<sup>1</sup>). Included with the T1 is a stainless steel flexible capillary armoured complete with capillary gland and insulation entry device.

A rugged cast aluminium enclosure, suitable for harsh industrial environments, provides watertight and dusttight protection (per IP66) to the thermostat switch. The T1 is approved for use in ordinary (nonclassified) areas and are certified to the ATEX directive for use in Category 2 and 3 (Zone 1 and 2) classified areas.

#### Ratings/Specifications . . .

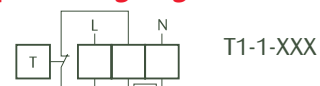
Voltage rating	400 Vac
Switch rating	
230 Vac	16 A (Ohmic, NC contact)
400 Vac	10 A (Ohmic, NC contact)
Ambient Temperature Range <sup>4</sup> :	
Temperature Class T6	-20° to +40° C
Temperature Class T5	-20° to +55° C
Switch type	
T1-1-XXX	SPDT
Electrical connection <sup>2</sup>	terminal block <sup>3</sup>
Adjustable control range	
T1-1-60	-15° to +60° C
T1-1-120	20° C to 120° C
T1-1-300	50° C to 300° C
Maximum control differential	
T1-1-60	±4° C
T1-1-120	±4° C
T1-1-300	±10° C
Maximum bulb exposure temperature	
T1-1-60	150° C
T1-1-120	145° C
T1-1-300	320° C
Bulb dimensions	
T1-1-60	6 x 140 mm
T1-1-120	6 x 140 mm
T1-1-300	4 x 165 mm
Bulb material	stainless steel
Capillary length	0.9 m
Approximate weight	3.5 kg



#### Housing Dimensions (A x B x C) . . .

T1-1-XXX . . . . . 120 x 120 x 118 mm

#### Typical Wiring Diagram . . .



#### Certification/Approval . . .

**CENELEC** European Organisation for Electrotechnical Standardisation  
Hazardous (Classified) Locations

**CE** **Ex** II 2 G/D EEx d IIC T5/T6 Demko 03 ATEX 134291X

T1 has additional hazardous area approvals including:

- GGTN • Kazakhstan

#### Notes . . .

1. Refer to Form TEP0057U for additional accessories.
2. The T1 has two M20 entries and is shipped with two washers.
3. Terminal block consists of four 4-mm<sup>2</sup> line/load terminals and one earth screw.
4. In case the T1 is used in an environment where high temperatures in combination with high humidity can be expected it is advisable to use a suitable breath valve; contact Thermon for assistance.



**THERMON . . . The Heat Tracing Specialists®**  
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