

# Clamp-on Temperature Sensor



The Titan Products clamp-on temperature sensor is designed to measure temperature conditions on the surface of liquid flow lines. The sensor element is enclosed in a brass contact stud which is clamped to the surface of the pipework in a position to measure the controlled condition.

For chilled water applications the sensor element and terminal board are epoxy sealed to prevent the influence of condensation in low temperature conditions.

The sensor is available with a range of temperature measurement elements. For best results use a heat conducting contact paste.

## Specification

Material:	Body: Flame retardant polycarbonate Contact stud: Brass Clamp band: plated steel
Sensing Elements:	See below
Accuracy:	+/-0.2°C @ 70°C thermistor +/-0.4°C (4-20mA) +/-0.5°C (0-10V)
Operating Temperature:	-40 - +70°C
Terminals:	1.0mm recommended 2.5mm max.
Location:	Positioned to measure the controlled condition
Dimensions (mm):	Body: H65 x W60 x D36 Band: 25 - 125 diameter (extra banding available on request)
Protection:	IP65
Country of Origin:	UK
Product Code:	See below

## Product Codes

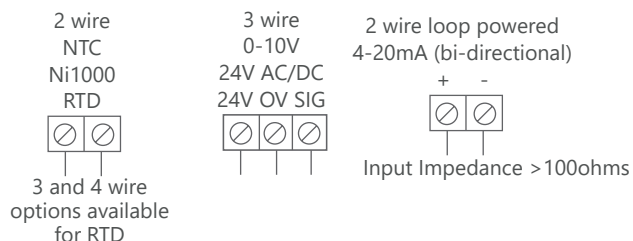
Element Type	System Compatibility	Product Codes		Accuracy
		Standard	Encapsulated	
10K3A1	Trend / Jel / Honeywell / Aquatrol 2000 / Ambiflex / Next / Smart / York	TPTCS	TPTCS/R	+/- 0.2°C
10K4A1	Andover / Automatrix / York / Siebe	TPACS	TPACS/R	+/- 0.2°C
20K6A1	Honeywell	TPHCS	TPHCS/R	+/- 0.2°C
Ni1000	Landis & Gyr	TPCS/Ni1000	TPCS/Ni1000/R	+/- 0.3°C
PT1000	PT1000	TPPT3CS	TPPT3CS/R	+/- 0.3°C
4-20mA	2 Wire Loop Powered	TPCS/40	(-10 to +40°C)*	+/- 0.4°C
0-10V	3 Wire 24V Supply	TPVCS/40	(-10 to +40°C)*	+/- 0.5°C

Other element types available on request. Contact Titan Products for details and options.

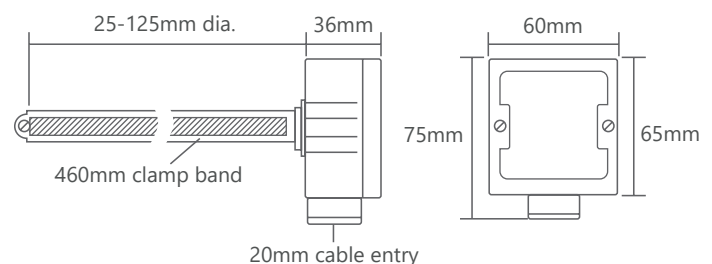
\* Other ranges available on request.

For high temperature assemblies please see Strap-on products

## Wiring



## Dimensions



Sensor is supplied with cable entry gland.

Standard banding fits pipe sizes up to 125mm.  
Extra banding available on request (TP/Band).  
Special assemblies available for pipe sizes less than 25mm

**The 10K3A1 range of environmental sensors are designed to be used with all Titan BACnet controllers**

t: +44 (0)161 406 6480 • sales@titanproducts.com • www.titanproducts.com

UK DESIGNED, DEVELOPED AND MANUFACTURED

Ref: SKU 18 / 250

