



CLAMP-ON TEMPERATURE SENSOR

TPCS FEATURES

- Compatible with most leading BMS systems
- Standard option for low-temperature hot water (LTHW) systems or encapsulated version for chilled water applications
- Secure IP65 enclosure

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 table
Accuracy:	+/-0.2°C @ 70°C thermistor +/-0.4°C (4-20mA) +/-0.5°C (0-10V)
Operating Temperature:	-40 to +70°C
Terminals:	1.0mm recommended 2.5mm max
Mounting Location:	Positioned to measure the controlled condition
Dimensions:	Body: H65 x W60 x D36 Band: 25-125 diameter (extra banding available on request)
Protection:	IP65
Country of Origin:	UK
Product Codes:	See table



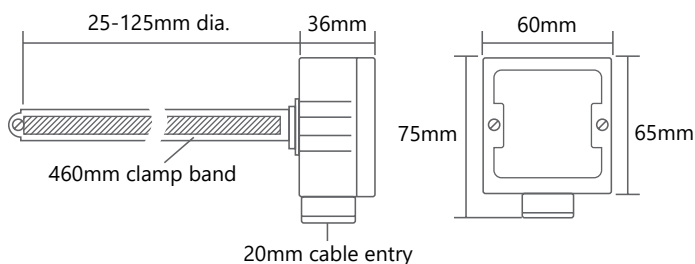
THERMISTOR OPTIONS

Element Type	Product Codes		Accuracy
	Standard	Encapsulated for Chilled Water	
10K3A1	TPTCS	TPTCS/R	+/- 0.2°C
10K4A1	TPACS	TPACS/R	+/- 0.2°C
20K6A1	TPHCS	TPHCS/R	+/- 0.2°C
Ni1000	TPCS/Ni1000	TPCS/Ni1000/R	+/- 0.3°C
PT1000	TPPT3CS	TPPT3CS/R	+/- 0.3°C
4-20mA	TPCS/40	(-10 to +40°C)*	+/- 0.4°C
0-10V	TPVCS/40	(-10 to +40°C)*	+/- 0.5°C

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

The 10K3A1 range of environmental sensors can be used with all Titan BACnet controllers

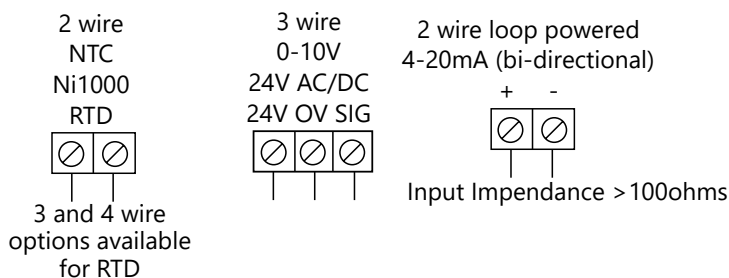
DIMENSIONS



Sensor is supplied with cable entry gland fitted

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

CONNECTIONS



INSTALLATION AND MAINTENANCE

- The sensors should be installed by a qualified engineer.
- The sensor should be placed in a position to best represent the temperature.

For further install and setup information please contact technical@titanproducts.com