

> Strap-on water temperature sensors

Sensors - water



Characteristics

- easy mounting on pipes, tubes or flat surfaces
- fast reaction time thanks to outstanding thermal transfer
- high protection

Usage

The sensor measures the temperature of heating systems (hot or cold water pipes) and solar collectors, among other things.

Specifications

General		
Article description	Strap-on water temperature sensor NTC10K	Strap-on water temperature sensor Ni1000TK5000 ¹
Article number	111231	111232
Sensor type	NTC10k, passive temperature sensor	Ni1000TK5000, passive temperature sensor
Dimensions (XYZ)	80.8 x 55.3 x 49 mm	
Diameter of clip binding (A)	diam. 25 - 175 mm	
Weight	120 grams	
Mounting / positioning	clip binding or external mounting holes	
Housing material	polycarbonate, UL94-V0 approved	
Clip binding material	stainless steel (corr. 1.4301 / 304)	
Cable gland	M16 x 1.5, UL94-V2	
IP code	IP65 NEMA 4	
Insulation resistance	> 100 MΩ at 20°C	
Response time T ₆₃	< 60 s	
Application range (contact surface)	-40 ... +110 °C	
Permitted temperature during storage	-30 ... +70 °C	
Permissible ambient relative humidity	5 ... 95% relative air humidity (non-condensing)	

¹ Only available for replacing another Ni1000TK5000 sensor.

Various versions

Versions are available with an NTC10K or an Ni1000TK5000 sensor. It is preferable to use a sensor with NTC10K. The sensor with Ni1000TK5000 is only available for existing projects to replace another Ni1000TK5000 sensor.

Fast reaction time

The sensor has a fast reaction time thanks to an aluminium contact surface that results in outstanding thermal transfer.

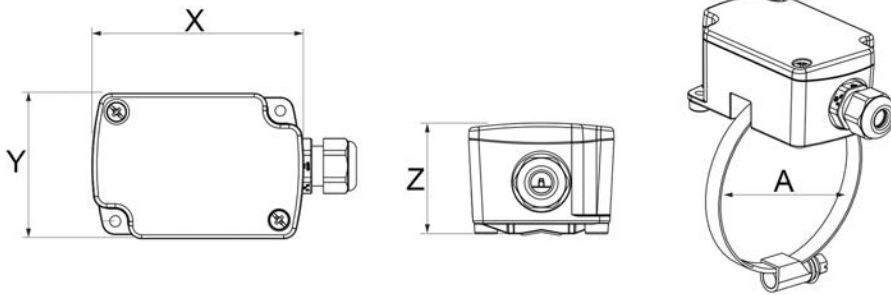
Easy installation

The sensor can be mounted without having to be opened. With the clip binding, the sensor can easily be attached to round surfaces such as pipes and tubes. With the external mounting holes, the sensor can be mounted on flat surfaces.

High protection

Mounting in a dirty environment is possible thanks to the high protection rating of the housing.

Passive output		
Sensor type	NTC10K	Ni1000TK5000 DIN B
Nominal resistance	R ₀₂₅ : 10 kΩ ± 0.5%	R ₀ : 1000 Ω
Sensitivity	B _{25/85} 3989 K (B _{25/50} : 3950 K ± 1.0%)	TC: 5000 ppm/K
Standard	-	DIN 43760
Measuring current	typ. < 1 mA	
Temperature sensor connection	two-wire	
Electrical connection	screw terminals, 2x max 2.5 mm ²	



Regulations and standards		
Europe		Electromagnetic compatibility <ul style="list-style-type: none"> • EN61326-1 • EN61326-2-3

Wiring diagram



Passive output

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