

## > Wall mounted temperature sensors

### Sensors - air handling



#### Usage

The sensor measures temperatures in rooms and is mounted on the wall.

#### Various versions

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

#### Mounting bracket for accurate measurement

The sensor is mounted at some distance from the wall with a supplied mounting bracket. Because this means that the sensor does not make contact with the wall, the temperature in the room is measured accurately.

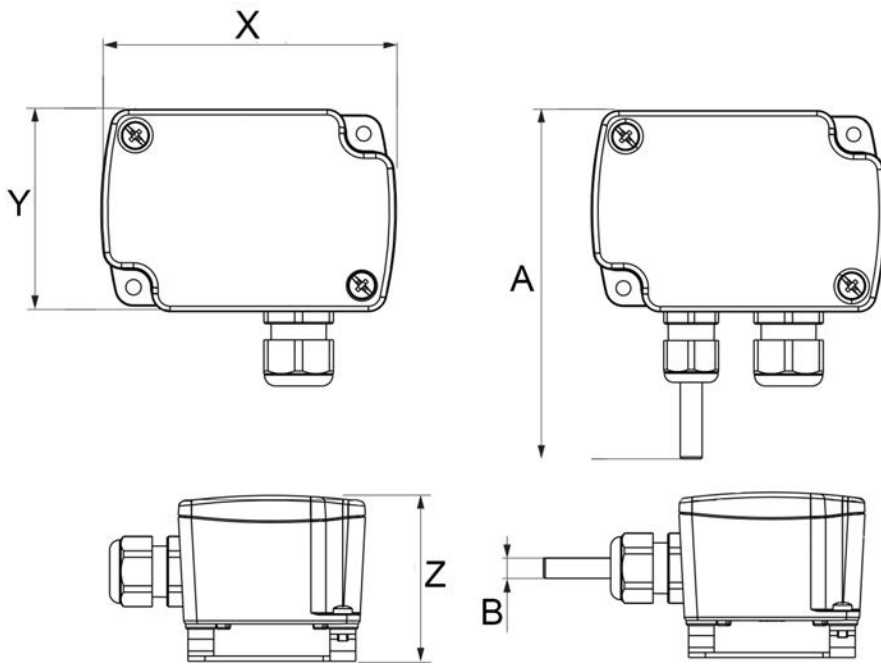
#### Characteristics

- for measuring temperature
- versions with active or passive outputs
- wall mounting with mounting bracket for accurate measurement
- protected against (building site) contamination
- housing can be opened and closed with a bayonet screw
- for indoor and outdoor use

#### Specifications

General			
Article description	Wall mounted temperature sensor 0-10V	Wall mounted temperature sensor NTC10k	Wall mounted temperature sensor Ni1000TK5000
Article number	111244	111260	111261 <sup>1</sup>
Type of output	active	passive	passive
Sensor type	Pt1000 (class A, DIN EN60751)	NTC10K	Ni1000TK5000 DIN B
Dimensions (XYZ)	80.8 x 55.3 x 49 mm		
Dimensions (AB)	96 x diam. 6 mm		
Weight	146 grams	90 grams	90 grams
Dimensions of mounting plate	49.6 x 70.6 mm		
Mounting / positioning	mounting bracket		
Housing material	polycarbonate, UL94-V0 approved		
Mounting plate material	stainless steel (corr. 1.4301 / 304)		
Cable gland	M16x1.5, UL94-V2		
IP code	IP65 NEMA 4		
Measurement range	-30 ... +70 °C	-40 ... +70 °C	-40 ... +70 °C
Permissible temperature during storage	-30 ... +70 °C		
Permissible relative humidity during storage	5 ... 95% relative humidity (non-condensing)		

<sup>1</sup> Only available for replacing another Ni1000TK5000 sensor.




Temperature sensor passive (left) and temperature sensor active (right)

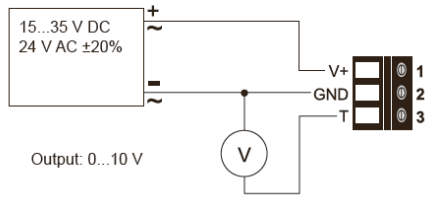
Active output	111244
Sensor type	Pt1000 (Class A, DIN EN60751)
Output signal	0 - 10 V (-1 mA < I <sub>L</sub> < 1 mA)
Accuracy	±0.3°C at 20°C
Supply voltage for 0 - 10 V	13 ... 35 VDC 24 VAC ±20%
Used power	VDC: typ. 5 mA VAC: typ. 12mA <sub>eff</sub>

Passive output	
Measuring current	typ. < 1 mA
Temperature sensor connection	two-wire
Electrical connection	screw connector, 2x max. 2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> )

Passive temperature sensor	111260	111261
Sensor type	NTC10K	Ni1000TK5000 DIN B
Nominal resistance	R <sub>025</sub> : 10 kΩ ± 0.5%	R <sub>0</sub> : 1000 Ω
Sensitivity	B <sub>25/85</sub> 3989 K (B <sub>25/50</sub> : 3950 K ± 1.0%)	TC: 5000 ppm/K
Standard	-	DIN 43760

Regulations and standards			
Europe		<b>111244</b>	<b>111260</b> <b>111261</b>
		<ul style="list-style-type: none"> <li>EN61326-1</li> <li>EN61326-2-3</li> </ul>	N/A
USA / Canada		FCC Part15 Class B ICES-003 Class 3	

## Wiring diagram



### Active output



### Passive output

Europe Office:  
Priva  
Zijlweg 3  
P.O. Box 18  
2678 ZG  
De Lier  
The Netherlands  
[www.priva.com](http://www.priva.com)  
[sales.building@priva.nl](mailto:sales.building@priva.nl)

UK Office:  
Priva UK Ltd.  
34 Clarendon Road  
  
Watford WD17 1JJ  
United Kingdom  
[www.priva.co.uk](http://www.priva.co.uk)  
[sales@priva.co.uk](mailto:sales@priva.co.uk)

Canada Office:  
Priva North America Inc.  
3468 South Service Road  
Vineland Station  
  
Ontario LOR 2E0  
Canada  
[www.priva.ca](http://www.priva.ca)  
[contact.priva@priva.ca](mailto:contact.priva@priva.ca)

Your Priva partner:

