

PASSIVE TEMPERATURE SENSORS PTE-CABLE

Cable sensor for HVAC applications

PTE-Cable is a passive temperature sensor engineered for HVAC applications. PTE-Cable senses temperatures in a wide range. It is well protected from the environment by its stainless steel sleeve which is crimped on to premium quality silicone rubber cable. Inside the sleeve, the temperature sensor is protected against condensation, ensuring long service life. The cable is halogen-free and oil resistant. PTE-Cable has a high protection rating of IP67.

PTE-Cable is available with the following sensor types:

- NTC10k
- NTC20k
- Pt1000
- Ni1000
- Ni1000-LG

Standard length cable is 2.0 meters. Custom lengths available upon request.



APPLICATIONS

PTE-Cable is commonly used in HVAC systems for:

- measuring temperature in ventilation units
- measuring temperature in hard-to-reach places
- measuring temperature in harsh environments
- general process control

MODEL SUMMARY

Description	Model	Product code
Passive temperature sensor - cable		
- with NTC10k sensor	PTE-Cable-NTC10	503.011.101
- with NTC20k sensor	PTE-Cable-NTC20	503.012.101
- with Pt1000 sensor	PTE-Cable-Pt1000	503.013.101
- with Ni1000 sensor	PTE-Cable-Ni1000	503.014.101
- with Ni1000-LG sensor	PTE-Cable-Ni1000-LG	503.015.101

PASSIVE TEMPERATURE SENSORS

PTE-CABLE

SPECIFICATIONS

Performance

Accuracy:
 NTC10k
 $\pm 0.25\text{ }^\circ\text{C}$ @ $25\text{ }^\circ\text{C}$
 NTC20k
 $\pm 0.25\text{ }^\circ\text{C}$ @ $25\text{ }^\circ\text{C}$
 Pt1000
 $\pm 0.3\text{ }^\circ\text{C}$ @ $0\text{ }^\circ\text{C}$
 Ni1000
 $\pm 0.4\text{ }^\circ\text{C}$ @ $0\text{ }^\circ\text{C}$
 Ni1000-LG
 $\pm 0.4\text{ }^\circ\text{C}$ @ $0\text{ }^\circ\text{C}$
Protection standard:
 IP67

Technical Specifications

Environment:
 Operating temperature: $-60\dots180\text{ }^\circ\text{C}$
 Short-term temperature: up to $250\text{ }^\circ\text{C}$

Physical

Sleeve material:
 Stainless steel
Cable material:
 Silicone rubber
Sleeve dimensions:
 Outer diameter: 6 mm
 Length: 50 mm
Cable length:
 2.0 m (custom lengths available on request)

Conformance

Meets the requirements for CE marking:
 RoHS Directive 2011/65/EU
 WEEE Directive 2012/19/EU

COMPANY WITH
 MANAGEMENT SYSTEM
 CERTIFIED BY DNV GL
 = ISO 9001 = ISO 14001 =



HOW TO GENERATE A MODEL?

Example: PTE-Cable-NTC10	Product series	
	PTE	Passive temperature sensor for gas
	Installation type	
	-Cable	Cable
	-Duct	Duct
	-Room	Room
	-O	Outside
	-OI	Outside with Illuminance
	Sensor element	
	-NTC10	10 k Ω @ $25\text{ }^\circ\text{C}$
-NTC20	20 k Ω @ $25\text{ }^\circ\text{C}$	
-Pt1000	1000 Ω @ $0\text{ }^\circ\text{C}$	
-Ni1000	1000 Ω @ $0\text{ }^\circ\text{C}$	
-Ni1000-LG	1000 Ω @ $0\text{ }^\circ\text{C}$	
Model	PTE	-Cable -NTC10