

# 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 ± 0.25 °C @ 25 °C NTC20k ± 0.25 °C @ 25 °C Pt1000 ± 0.3 °C @ 0 °C Ni1000 ± 0.4 °C @ 0 °C Ni1000-LG ± 0.4 °C @ 0 °C Protection standard:

## **Technical Specifications**

**Environment:** 

Operating temperature: -60...180 °C Short-term temperature: up to 250 °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:        | Product series |            |                  |               |  |
|-----------------|----------------|------------|------------------|---------------|--|
| PTE-Cable-NTC10 | PTE            | Passive t  | emperature senso | or for gas    |  |
|                 |                | Installati | on type          |               |  |
|                 |                | -Cable     | Cable            |               |  |
|                 |                | -Duct      | Duct             |               |  |
|                 | Ī              | -Room      | Room             |               |  |
|                 |                | -0         | Outside          |               |  |
|                 |                | -OI        | Outside with II  | luminance     |  |
|                 |                |            | Sensor elemer    | nt .          |  |
|                 |                |            | -NTC10           | 10 kΩ @ 25 °C |  |
|                 |                |            | -NTC20           | 20 kΩ @ 25 °C |  |
|                 |                |            | -Pt1000          | 1000 Ω @ 0 °C |  |
|                 |                |            | -Ni1000          | 1000 Ω @ 0 °C |  |
|                 | Ī              | Ī          | -Ni1000-LG       | 1000 Ω @ 0 °C |  |
| Model           | PTE            | -Cable     | -NTC10           |               |  |