

## PASSIVE TEMPERATURE SENSORS PTE-O

Outside air temperature sensor for HVAC applications



PTE-O is a passive temperature sensor engineered for HVAC applications. PTE-O is used to sense outside air temperature.

PTE-O is available with the following sensor types:

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



### APPLICATIONS

PTE-O is commonly used in HVAC systems for:

- measuring outside air temperature
- measuring temperature in cold storages
- measuring inside air temperature in warehouses

### MODEL SUMMARY

Description	Model	Product code
Passive temperature sensor - outside		
- with NTC10k sensor	PTE-O-NTC10	504.011.101
- with NTC20k sensor	PTE-O-NTC20	504.012.101
- with Pt1000 sensor	PTE-O-Pt1000	504.013.101
- with Ni1000 sensor	PTE-O-Ni1000	504.014.101
- with Ni1000-LG sensor	PTE-O-Ni1000-LG	504.015.101

# PASSIVE TEMPERATURE SENSORS

## PTE-0

### 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 class:**  
 IP54

#### Technical Specifications

**Environment:**  
 Operating temperature:  
 -50 ... +50 °C

#### Physical

**Housing material:**  
 ABS  
**Cover material:**  
 PC  
**Housing dimensions:**  
 90.0 x 95.0 x 36.0 mm  
**Weight:**  
 90 g

#### 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?

<b>Example:</b> PTE-O-NTC10	<b>Product series</b>	
	PTE	Passive temperature sensor for gas
	<b>Installation type</b>	
	-Cable	Cable
	-Duct	Duct
	-Room	Room
	-O	Outside
	-OI	Outside with Illuminance
	<b>Sensor element</b>	
	-NTC10	10 kΩ @ 25 °C
-NTC20	20 kΩ @ 25 °C	
-Pt1000	1000 Ω @ 0 °C	
-Ni1000	1000 Ω @ 0 °C	
-Ni1000-LG	1000 Ω @ 0 °C	
Model	PTE	-O -NTC10