# HK INSTRUMENTS
**USER-FRIENDLY MEASURING DEVICES**

# PASSIVE TEMPERATURE SENSORS
# PTE-DUCT

## Duct temperature sensor for HVAC applications

**5 YEAR WARRANTY**

PTE-Duct is a passive temperature sensor engineered for HVAC applications. PTE-Duct is used to sense air temperature inside a ventilation duct. The temperature sensor is housed inside a stainless steel tube that protects it from the environment and condensation, ensuring long service life.

**PTE-Duct is available with the following sensor types:**
- NTC10k
- NTC20k
- Pt1000
- Ni1000
- Ni1000-LG

## APPLICATIONS

PTE-Duct is commonly used in HVAC systems for:
- measuring air temperature in ventilation ducts

## MODEL SUMMARY

| Description | Model | Product code |
|---|---|---|
| Passive temperature sensor - duct | | |
| - with NTC10k sensor | PTE-Duct-NTC10 | 501.011.101 |
| - with NTC20k sensor | PTE-Duct-NTC20 | 501.012.101 |
| - with Pt1000 sensor | PTE-Duct-Pt1000 | 501.013.101 |
| - with Ni1000 sensor | PTE-Duct-Ni1000 | 501.014.101 |
| - with Ni1000-LG sensor | PTE-Duct-Ni1000-LG | 501.015.101 |

# PASSIVE TEMPERATURE SENSORS
# PTE-DUCT

## 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 ... +100 °C
Ambient temperature: -50...+50 °C

### Physical

**Housing material:**
ABS
**Cover material:**
PC
**Sensor tube length:**
190 mm
**Sensor tube outer diameter:**
7 mm
**Housing dimensions:**
90.0 x 95.0 x 36.0 mm
**Weight:**
100 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 =

CE

RoHS 2
2011/65/EU

## HOW TO GENERATE A MODEL?

| Example: | Product series | | |
|---|---|---|---|
| **PTE-Duct-NTC10** | PTE | Passive temperature sensor for gas | |
| | | **Installation type** | |
| | | -Cable | Cable |
| | | -Duct | Duct |
| | | -Room | Room |
| | | -O | Outside |
| | | -OI | Outside with Illuminance |
| | | | **Sensor element** |
| | | | -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 | -Duct | -NTC10 |