

PASSIVE TEMPERATURE SENSORS PTE-DUCT

Duct temperature sensor for HVAC applications



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:

- NTC1.8k
- 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
- with NTC1.8k sensor	PTE-Duct-NTC1.8	501.017.101

PASSIVE TEMPERATURE SENSORS

PTE-DUCT

SPECIFICATIONS

Performance

Accuracy:
 NTC1.8k
 ± 0.5 °C @ 25 °C
 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 =



HOW TO GENERATE A MODEL?

Example:	Product series	
	PTE-Duct-NTC10	PTE
Installation type		
-Duct		Duct
Sensor element		
-NTC1.8		1.8 kΩ @ 25 °C
-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