

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:

- 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 =



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