HK INSTRUMENTS
USER-FRIENDLY MEASURING DEVICES

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:
- NTC1.8k
- 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
- with NTC1.8k sensor	PTE-O-NTC1.8k	504.016.101

PASSIVE TEMPERATURE SENSORS
PTE-O

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 ... +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 =**

CE

RoHS 2
2011/65/EU

HOW TO GENERATE A MODEL?

Example:	Product series			
PTE-O-NTC10	PTE	Passive temperature sensor for gas		
		Installation type		
		-O	Outside	
			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	-O	-NTC10	