

PASSIVE TEMPERATURE SENSORS PTE-ROOM

Room temperature sensor for HVAC applications



PTE-Room is a passive temperature sensor engineered for HVAC applications. PTE-Room is used to sense air temperature indoors. The temperature sensor is housed in a modern white plastic housing. PTE-Room is particularly easy to install. The cover can be opened without tools and the cable can be routed from behind or above/below the installation surface. PTE-Room can be installed on top of a standard electrical switch box.

PTE-Room is available with the following sensor types:

- NTC1.8k
- NTC10k
- NTC20k
- Pt1000
- Ni1000
- Ni1000-LG



APPLICATIONS

PTE-Room is commonly used in HVAC systems for:

- measuring indoor air temperature in offices, hospitals, schools etc.

MODEL SUMMARY

Description	Model	Product code
Passive temperature sensor - room		
- with NTC10k sensor	PTE-Room-NTC10	502.011.101
- with NTC20k sensor	PTE-Room-NTC20	502.012.101
- with Pt1000 sensor	PTE-Room-Pt1000	502.013.101
- with Ni1000 sensor	PTE-Room-Ni1000	502.014.101
- with Ni1000-LG sensor	PTE-Room-Ni1000-LG	502.015.101
- with NTC1.8k sensor	PTE-Room-NTC1.8	502.016.101

PASSIVE TEMPERATURE SENSORS

PTE-ROOM

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:
 IP20

Technical Specifications

Environment:
 Operating temperature:
 -10 ... +50 °C

Physical

Housing material:
 ABS
Housing dimensions:
 85 x 85 x 27,5 mm
Weight:
 50 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-Room-NTC10	PTE
Installation type		
-Room		Room
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	-Room -NTC10