

T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# RTDs Type PT

## Thermometrics Platinum Sensors For Temperature Measurement



### Applications

- Heating and air conditioning
- Automotive
- Domestic appliances e.g. ovens
- Industrial process control
- Portable temperature measuring and test equipment
- Surface temperature
- Energy metering

### Features

- Characteristics according to DIN IEC 751
- Temperature range: -58°F to 1112°F (-50°C to 600°C)
- Excellent long term stability
- High reliability
- Insensitive to vibration
- Insensitive to thermal shock
- Rapid response time

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# Types PT Specifications

## Description

Thin film RTD sensing element on ceramic substrate

## Options

- Tight tolerance grouping (e.g. for accurate differential temperature measurement)
- Non-standard dimensions, resistance, length of lead wires and temperature range
- Extended maximum temperature of 1382°F (750°C) and higher

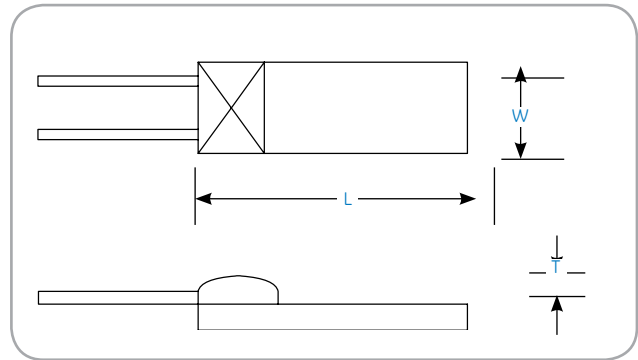
## Termination Data

- **PTR, PTP:** Nickel wires platinum coated  
0.0098 in (0.25 mm) diameter
- **PTF:** Brass wires, solder coated
- **PTNK:** Silver palladium pad, solder coated

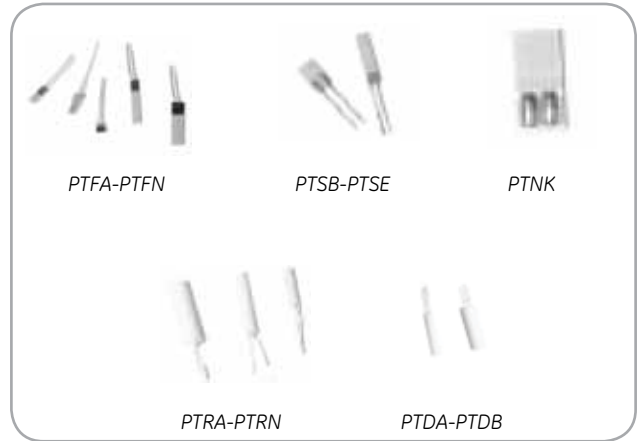
## Types

Sensors Type tolerance	Dimensions W x L x T	Resistance Ro at 32°F (0°C)			Temperature range in class DIN B (°C)
		mm	100Ω	500Ω	
PTFA	2.9x10.0x1.4	-	-	-	-50 to +600
PTFB	2.0x10.0x1.4	-	-	-	-50 to +600
PTFC	2.0x2.4x1.4	-	-	-	-50 to +600
PTFD	2.0x5.0x1.4	-	-	-	-50 to +600
PTFE	3.9x5.0x1.4	-	-	-	-50 to +600
PTFN	1.7x5.0x1.1	-	-	-	-50 to +600
PTSB	2.4x10.0x1.4	-	-	-	-40 to +150
PTSE	3.7x6.0x1.4	-	-	-	-40 to +150
PTNK	3.7x 8.4x1.1	-	-	-	-40 to +150
PTRA	4.5x13.0	-	-	-	-50 to +600
PTRB	2.8x13.0	-	-	-	-50 to +600
PTRN	2.2x7.5	-	-	-	-50 to +400
PTDA *	4.5x13.0	-	-	-	-50 to +600
PTDB *	2.8x13.0	-	-	-	-50 to +600

\* Contains 2 Pt sensors



NTC Type PT dimensions



## Ordering Information

The code number to be ordered may be specified as follows:

Code	Type
PT	Platinum Resistor (Platinum Sensor)
D	Double
F	Flat
N	Chip
R	Round
S	Comatel Pin
	<b>Code Size</b>
C	0.078 in x 0.094 in (2.0 mm x 2.4 mm)
	<b>Code Size</b>
101	100Ω
501	500Ω
102	1000Ω
	<b>Code Tolerance</b>
B	class B according to DIN IEC 751
	<b>Code Type</b>
XXX	Special Types (Customer Specific)

PT - - - - - Typical model number

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