



# RTDs: TYPE PT

## PLATINUM SENSORS FOR TEMPERATURE MEASUREMENT

### DESCRIPTION:

Thin film RTD sensing element on ceramic substrate

### FEATURES:

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

### APPLICATIONS:

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

### TYPES:

| Sensor type | Dimensions<br>W x L x T<br>mm | Resistance Ro at<br>0°C |           |            | Temperature<br>range in tolerance<br>class DIN B (°C) |  |
|-------------|-------------------------------|-------------------------|-----------|------------|-------------------------------------------------------|--|
|             |                               | 100-<br>Ω               | 500-<br>Ω | 1000-<br>Ω |                                                       |  |
| 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

Data sheet D-PT-1



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#### TERMINATION DATA:

**PTR, PTP** ..... Nickel wires platinum coated  
..... 0.25mm diam  
**PTF** ..... Brass wires solder, coated  
**PTNK** ..... Silver palladium pad, solder coated

#### CODING:

| PT | F | C | 101 | B | XXX |
|----|---|---|-----|---|-----|
| 1  | 2 | 3 | 4   | 5 | 6   |

- (1) Platinum resistor (Platinum sensor)
- (2) Type (D = double, F = flat, N = chip, R = round, S = Comatel pin)
- (3) Size (e.g. C = 2.0mm x 2.4mm)
- (4) Resistance value (101 = 100Ω, 501 = 500Ω, 102 = 1000Ω)
- (5) Tolerance (B = class B according to DIN IEC 751)
- (6) Special types (customer specific)

#### 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 750°C and higher

#### DIMENSIONS:

