

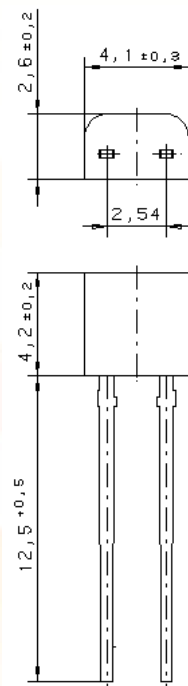
Housed Platinum Resistance Temperature Detector

TO 92

The PRTD in a plastic housing is characterized by its standardized signal according to DIN EN 60751 (according to IEC 751), interchangeability, excellent long time stability and accuracy. It offers an optimal price-performance ratio in large volume applications including Automotive, Domestic Appliances and Industrial Equipment.

| Nominal Resistance R ₀ | Tolerance DIN EN 60751 1996-07 | Tolerance DIN EN 60751 2009-05 | Order Number Plastic Box |
|-----------------------------------|--------------------------------------|--------------------------------------|-----------------------------|
| 100 Ohm at 0°C | Class B | F 0,3 | 32 209 210 |
| | Class 2B | F 0,6 | 32 209 216 |
| 1000 Ohm at 0°C | Class B | F 0,3 | 32 209 220 |
| | Class 2B | F 0,6 | 32 209 226 |

| | | |
|-------------------------------------|---|--|
| Specification | DIN EN 60751 (according to IEC 751) | |
| Temperature range | -50°C to +150°C Tolerance Class B or 2B: -50°C up to +150°C | |
| Temperature coefficient | TC = 3850 ppm/K | |
| Soldering connection | Cu alloy with Sn coating | |
| Long-term stability | max. R ₀ -drift 0.06% after 1000 h at 150°C max. R ₀ -drift 0.04% after 1000 h at -55°C | |
| Self heating | Pt100: 0.4 K/mW Pt1000: 0.2 K/mW | |
| Response time | water current (v = 0.4 m/s): | t _{0,5} = 0.7s t _{0,9} = 2.0s |
| | air stream (v = 2 m/s): | t _{0,5} = 8.0s t _{0,9} = 26s |
| Resistance to soldering heat | max. deviation 0.03% after 10s at 260°C | |
| Flammability | UL 94-V0 | |
| Specific volume resistance | 20°C: 5 x 10 ¹⁶ Ωcm 150°C: 5 x 10 ¹³ Ωcm | |
| Physical data of housing | material: duroplastic coefficient of thermal expansion: 13 x 10 ⁻⁶ /°C thermal conductivity: 0.65 W/mK moisture absorption: 0.5% (P.C.T.: 121°C, 24h) | |
| Storing information | ≤ 1 year (in dry environments) for best solderability | |
| Note | Other tolerances and values of resistance are available on request. | |



Note Other tolerances and values of resistance are available on request.

We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

Heraeus Sensor Technology USA

1901 Route 130
North Brunswick, NJ 08902
Phone 732-940-4400 Fax 732-940-4445
Email info.hst-us@heraeus.com
http://heraeus-sensor-technology-us.com

Name of document: 30910041 Index A
Status: 06/2010