

Platinum Resistance Temperature Detector

HL 220

HL 220 type platinum sensors are characterised by long-term stability, precision over a broad temperature range and compatibility. The main feature is the small design. They are used in particular for applications with high consumption volumes, e.g. white goods and heating power.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
1000 Ohm at 0°C	Class 2B	F 0.6	32 208 779

The measuring point fort he nominal resistance is defined at 6mm from the end oft he sensor body.

Specification DIN EN 60751

Temperature range -70°C up to +750°C

Tolerance Class 2B: -70°C up to +750°C

Temperature coefficient TC = 3850 ppm/K

Leads Pt coated NiCr- wire

Lead lengths (L) 8mm ±1mm

Long-term tests R₀- Drift after 1000h at 750°C (energized) < 0,24%

(Unhoused chip in standard atmosphere.)

Environmental conditions Unhoused for dry environmental only, above 500°C

no reducing atmosphere, free air admission is

necessary.

Assembly can influence the long term stability!

Vibration resistance at least 40g acceleration at 10 to 2000 Hz,

depends on installation

Shock resistance at least 100g acceleration with 8ms half sine wave,

depends on installation

Insulation resistance > 100 M Ω at 20 °C; > 1 M Ω at 650 °C

Self heating 0.2 K/mW

Response time Water current (v= 0.4m/s): $t_{0.5} = 0.05$ s

 $t_{0.9} = 0.14s$

Air stream (v= 2m/s): $t_{0.5} = 3.0s$

 $t_{0.9} = 10s$



(self heating has to be considered)

Note Other tolerances, values of resistance and wire lengths 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.

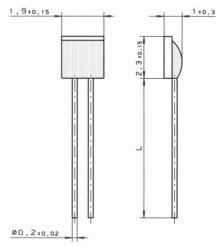
Heraeus Sensor Technology USA 1901 Route 130

North Brunswick, NJ 08902

Phone 732-940-4400 Fax 732-940-4445

Email info.hst-us@heraeus.com

http://heraeus-sensor-technology-us.com





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