

2±0,2

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Έ. consider polarity! 1,1±0,8

Ø0,25±0,02

Platinum Resistance Temperature Detector

HA 421 Pt 200

HA 421 platinum temperature sensors are characterized by long-term stability, precision over a broad temperature range and compatibility. Main application areas are within the automotive industry. For measuring high temperatures you should use a sensor, which reliably works in rough environments, has a long expectancy of life and ideally comes up with the space-saving concepts of the automotive industry.

Nominal Resistance R ₀	Tolerance	Order No. Blister box
200 Ohm at 0°C	HST – Tolerance 0°C: +-4.5 K; 500°C: +-7.5 K; 1000°C: +-15 K	32 208 762

The measuring point for the nominal resistance is defined at 6 mm from the end of the sensor body.

HST (Heraeus Sensor Technology) Specification

-70°C up to +1000°C **Temperature Range**

Temperature coefficient TC = 3770 ppm/K

Leads Pt

Lead length (L) 8 mm +- 1mm

Long-term tests 1000h at 1000°C 2mA, △RO typical < 3k

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

depends on installation

Shock resistance at least 100 g acceleration with 8ms

half sine wave, depends on installation

Environmental conditions Unhoused for dry environment only,

Up to 650°C in housings also as MI-type possible,

above 650°C no reducing atmosphere,

free air admission necessary

Insulation resistance >100 MOhm at 20°C

0.2 K/mW at 0 °C Self heating

Response time Water current (v = 0.4 m/s): $t_{0.5} = 0.05$ s; $t_{0.9} = 0.17$ s

Air stream (v = 2 m/s): $t_{0.5}$ = 3.3 s; $t_{0.9}$ = 13.0 s

20°C: 5 mA; 1000°C: max. 2.7 mA Measuring current

(self heating has to be considered)

Other tolerances, values of resistance and wire lengths are Note

available on request.

When connecting the sensor, proper polarisation see drawing has to be

maintained!!!

Status objective

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.

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