

HM 220, Platinum Temperature Sensor according to DIN EN 60751

Temperature range -70 °C to $+600\text{ °C}$

HM 220 type platinum sensors are characterized by long-term stability, precision over a broad temperature range and compatibility. The main feature is the small design. The products are typically used in white goods, HVAC, energy management, medical and industrial equipment. In principle, the products can also be used in automotive applications; in this case Heraeus will check upon the request of the customer, whether additional requirements can be met (e.g. IMDS, PPAP).

Nominal Resistance R_0	Tolerance	Order Number	Packaging
100 Ohm at 0 °C	F 0.3 (Class B)	32 208 787	Plastic bag

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

Temperature and tolerance range

Tolerance class F 0.3 (B): -70 °C to $+600\text{ °C}$

Temperature coefficient

TCR = 3850 ppm/K

Response time

Water current ($v= 0.4\text{m/s}$):
 $t_{0.5} = 0.05\text{ s}$
 $t_{0.9} = 0.14\text{ s}$

Air stream ($v= 2\text{m/s}$):
 $t_{0.5} = 3.0\text{ s}$
 $t_{0.9} = 10.0\text{ s}$

Measuring current

0.3 to 1.0 mA
 (self-heating has to be considered)

Long-term stability

R_0 -Drift 0.24 % after 1000 hours at 600 °C (energized)
 (unhoused chip in standard atmosphere)

Self-heating

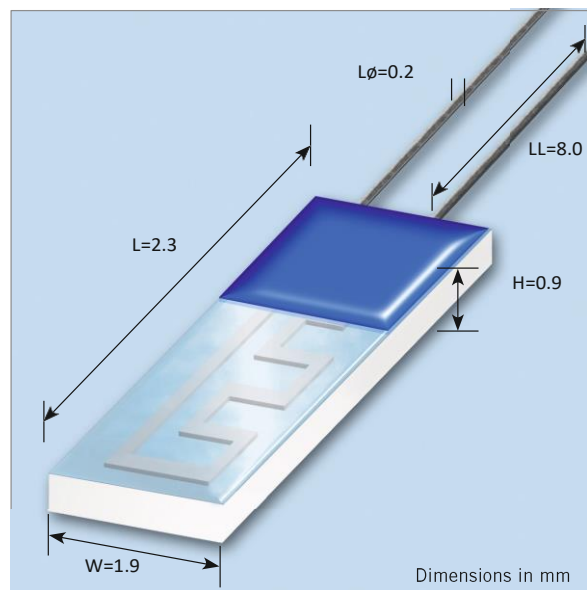
0.2 K/mW at 0 °C

Insulation resistance

$> 100\text{ M}\Omega$ at 20 °C
 $> 1\text{ M}\Omega$ at 600 °C

Vibration resistance

At least 40 g acceleration at 10 to 2000 Hz, depends on installation



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HM 220, Platinum Temperature Sensor according to DIN EN 60751

Temperature range -70 °C to +600 °C

Shock resistance

At least 100 g acceleration with 8 ms half sine wave, depends on installation

Leads

Pt coated Pd alloy

Lead lengths (LL)

8 mm ± 1 mm

Connection technology

Suitable for welding and brazing

Tensile strength of leads

≥ 10 N

Packaging

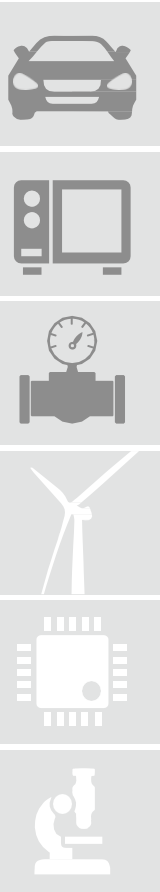
Alternative packaging forms on request.

Storage life

Min. 12 months (in original packaging)

Note

Other tolerances, values of resistance and wire lengths are available on request.



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