

## Heraeus Sensor Technology

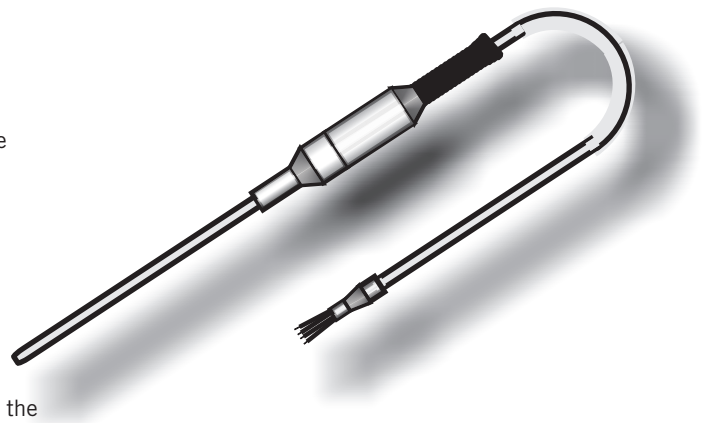


## Temperature reference thermometer PRTD SP-H01

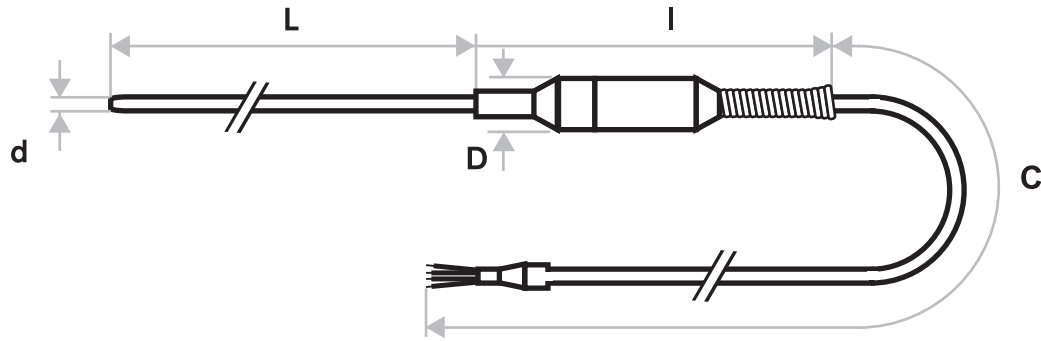
The reference thermometer Heraeus SP-H01 is a platinum resistance thermometer specially developed for typical laboratory applications, delivering excellent stability due to its aged physically pure platinum resistance element with pure alumina insulation. The reference thermometer SP-H01 come with durable wooden transport case.

Applications: in general laboratory thermometers.

Construction: The design of this practical and accurate thermometer allows the sensor coil to expand and contract in the internal bores of the ceramic insulator. The result of this free construction is an excellent stability in the whole temperature range. The element sensor is protected by an internal layer of quartz glass, which ensures an extra protection against contamination of the platinum wire.



# SP-H01 Specifications:



Status: 11/2006. Technical modifications reserved

## Data Sheet

Description	Temperature range	Order No.	Dimensions mm					Self Heating 0°C (K/mW)
			L	D	d	I	C	
SP-H01	-40°C to +420°C	23.010.001	350	22	6.0	150	1500	0.07

**Nominal resistance:** 100 Ohm @ 0 °C

**Temperature range:** -40 °C to +420 °C

**Temperature coefficient:** Tc = 3850 ppm/K

**Extension cable:** Silicon - insulated, stranded cooper, 4 x 24 AWG

**Protective tube material:** AISI 316

**Insulation resistance:** > 4 G Ohms @ room temperature;  
> 1.5 G Ohms @ 420°C

**Measuring current:** 1 mA

**Immersion depth:** 120mm to 250mm

**Self Heating:** 0.070 K/mW

**Thermal Hysteresys Test:** Max. Ro-drift 0.04% (according to ASTM E 644-02 item 16)

Heraeus Sensor Technology  
Rua Bindex, 134  
09950-080 - Diadema - SP  
Phone: +55 11 40715933  
Fax: +55 11 40712791  
E-Mail: info@heraeus.com.br  
www.heraeus-sensor-technology.com.br

Heraeus Sensor Technology reserves the right to make changes in illustrations and technical data printed in this Data Sheet resulting from further development. These datas replaces all previous published issue.