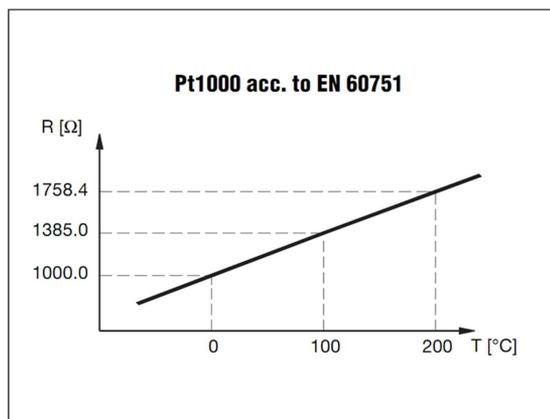


# Pt1000 Temperature sensors



Characteristic curve

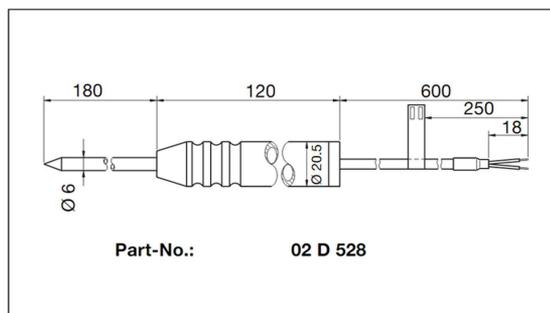
### Application:

The sensors are used for measuring the temperature in refrigeration plants. The high-quality Pt1000 temperature sensors reduce measuring errors. Due to them calibration is normally

not necessary. All technical data are determined by the sensor design and material. The constructional design leads to a short response time.

### Technical data Pt1000 acc. to EN 60751 KI.B (Sensor when built-in)

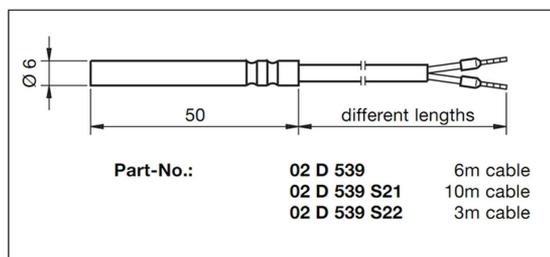
Recommended meas. current for heat. coefficient < 0.1K	DC 0.2...2mA
Sensor resistant at 0°C	1000Ω ± 1.20Ω
Change of resistance 0...100°C	3.85Ω/K
Insulation test voltage U <sub>is</sub>	AC 1.5kV



Dimensions in mm

### Technical data 02 D 528

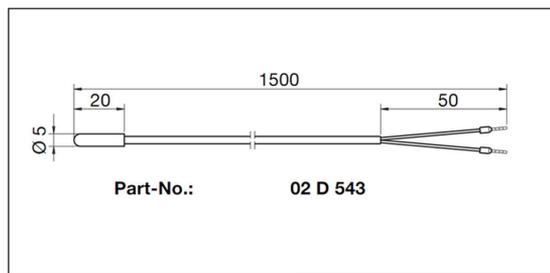
Measuring range	-60...+90°C (at the peak)
Ambient temperature range	-60...+90°C
Protection class acc. to EN 60529	IP68
Connection lead	silicone, 2 x 0.25mm <sup>2</sup>
max. Supply voltage	DC 15V
max. meas. current	0.4mA (without self-heating)
Protection tube	V4A 1.4571, accepted for use with food
Hand grip	Teflon



Dimensions in mm

### Technical data 02 D 539/...S21/...S22

Measuring range	-50...+100°C
Ambient temperature range	-50...+100°C
Protection class acc. to EN 60529	IP65
Connection lead	silicone, 2 x 0.25mm <sup>2</sup>
Sensor protection	tube V4A 1.4571, two-fold rolled



Dimensions in mm

### Technical data 02 D 543

Measuring range	-50...+105°C
Ambient temperature range	-50...+105°C
Protection class acc. to EN 60529	IP65
Connection lead	TPE-rubber, 2 x 0.32mm <sup>2</sup> (AWG 22)
Sensor protection	TPE-rubber, vulcanized

Special designs on request

Subject to technical modifications without notice