Technische Alternative RT GmbH
A-3872 Amaliendorf, Langestr. 124
Tel +43 (0)2862 53635 mail@ta.co.at

Temperature sensors

KTY and PT1000 accuracy:

Sensor type	Range	Accuracy
PT1000	0-100 °C	Class DIN B
KTY	At 25 °C	1 K

Collector temperature sensors

Temperature-resistant sensor with 2 m silicone cable for collector, with junction box and surge arrester

	**KFPT1000** – continuous load up to 240 °C, momentary load up to 260 °C, PT1000 characteristics, sensor cap chrome plated brass 6x20 mm
	**KFPT10004X35MM** – continuous load up to 240 °C, PT1000 characteristics, sensor cap 4x35 mm
	**KFKTY** – semiconductor characteristic 2000 Ω/25 °C, continuous load up to 160 °C, momentary load up to 180 °C, sensor cap chrome plated brass 6x20 mm

Boiler temperature sensors

Temperature-resistant sensor with 2 m silicone cable for the boiler area

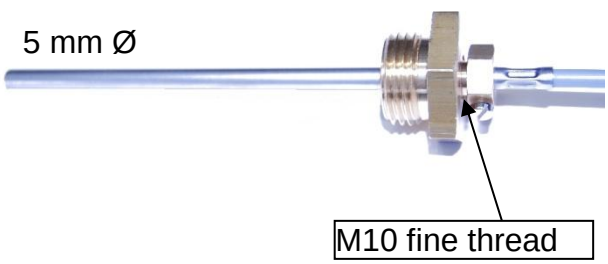
	**KEPT1000** – continuous load up to 160 °C, momentary load up to 180 °C, PT1000 characteristics, sensor cap chrome plated brass 6x20 mm
	**KEKTY** – semiconductor characteristic 2000 Ω/25 °C, continuous load up to 160 °C, momentary load up to 180 °C, sensor cap chrome plated brass 6x20 mm

Cylinder temperature sensors

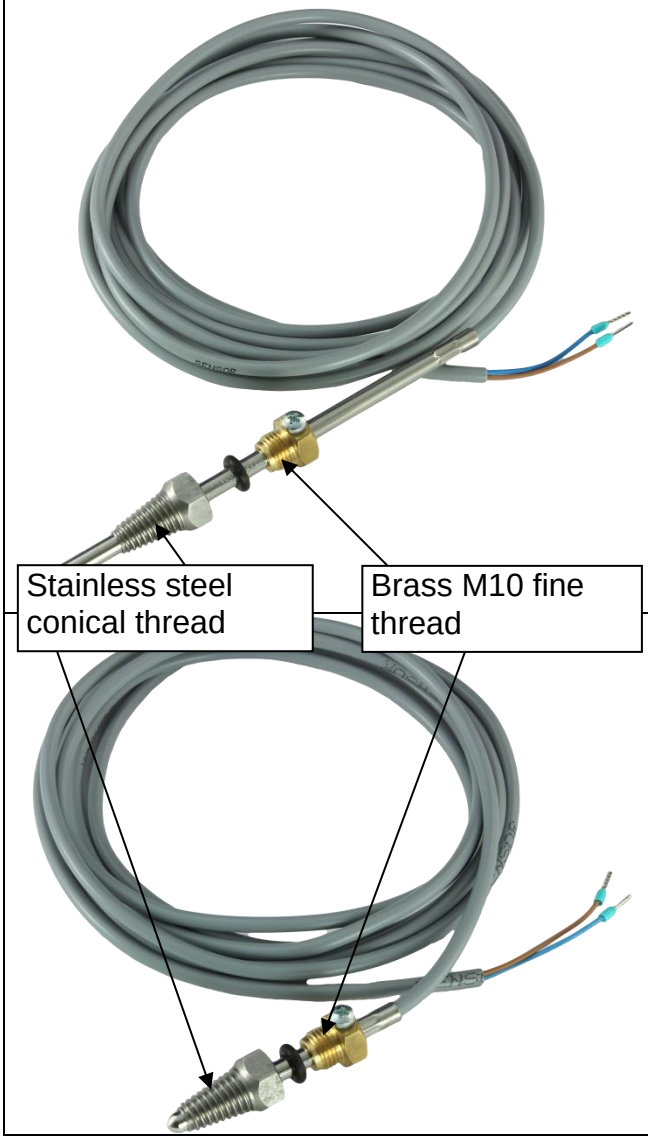
Sensor with 2 m cable

	**BFPT1000** – continuous load up to 90 °C, momentary load up to 100 °C, PT1000 characteristics, sensor cap chrome plated brass 6x20 mm
	**BFPT10004X35MM** – continuous load up to 240 °C, PT1000 characteristics, sensor cap 4x35 mm
	**BFPT10005X60MM** – continuous load up to 90 °C, PT1000 characteristics, sensor cap 5x60 mm, suitable for KH ball valve
	**BFKTY** – semiconductor characteristic 2000 Ω/25 °C, continuous load up to 90 °C, momentary load up to 100 °C, sensor cap chrome plated brass 6x20 mm

Ultra-fast cylinder sensors

	**MSP130** – ultra-fast sensor with PT1000 characteristics for hygienic DHW heating, including brass installation kit (with fixing screw) Total sensor length: 130 mm Max. immersion length: approx. 100 mm Fitting: 1/2" Cable length: 2.00 m Continuous load up to 90 °C Accuracy class DIN B
	**MSP60** – ultra-fast sensor with PT1000 characteristics for hygienic DHW heating, including brass installation kit (with fixing screw) Total sensor length: 60 mm Max. immersion length: approx. 45 mm Diameter: 5 mm Fitting: 1/2" Cable length: 2.00 m Continuous load up to 90 °C Accuracy class DIN B

Ventilation sensors



MSL130 – PT1000 sensor for installation in ventilation ducts incl. installation kit (with fixing screw)

Total sensor length: 130 mm

Max. insertion length: approx. 100 mm

Diameter: 5 mm

Stainless steel fitting: conical, self-tapping thread

Air duct hole: 8 mm

Cable length: 2.00 m

Continuous load up to 90 °C

Accuracy class DIN B

MSL60 – PT1000 sensor for installation in ventilation ducts incl. installation kit (with fixing screw)

Total sensor length: 60 mm

Max. insertion length: approx. 45 mm

Diameter: 5 mm

Stainless steel fitting: conical, self-tapping thread

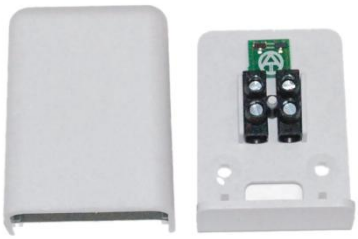
Air duct hole: 8 mm

Cable length: 2.00 m

Continuous load up to 90 °C

Accuracy class DIN B

Outside temperature sensor



AUSPT – air temperature sensor with integral surge protection, can be used as an outside temperature sensor for heating system controllers, PT1000 characteristics,
Permissible temperature range: -30 °C to +50 °C
Dimensions (W x H x D): 40 x 54 x 23 mm

AUSKTY – as per AUSPT, but KTY semiconductor characteristics

Resistance values KTY Type KTY 81-210**:**

Temp. [°C]	**0**	**10**	**20**	**25**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
R(KTY)[Ω]	1630	1772	1922	2000	2080	2245	2417	2597	2785	2980	3182	3392

Type PT1000:
The table shows the electrical resistance value that correlates to every temperature for the PT1000 sensors that we sell. PT1000 sensors have a linear curve across the entire operating temperature range. This has been stipulated as mandatory in EN 60751.

Temperature	Resistance	Tolerance in class DIN B	Tolerance in class DIN B	Tolerance in class DIN A	Tolerance in class DIN A
°C	Ohm	+/- °K	+/- Ohm	+/- °K	+/- Ohm
-40	**842**	0.50	1.99	0.23	0.91
-30	**882**	0.45	1.78	0.21	0.83
-20	**922**	0.40	1.57	0.19	0.75
-10	**961**	0.35	1.37	0.17	0.67
0	**1000**	0.30	1.17	0.15	0.59
10	**1039**	0.35	1.36	0.17	0.66
20	**1078**	0.40	1.55	0.19	0.74
30	**1117**	0.45	1.74	0.21	0.81
40	**1155**	0.50	1.93	0.23	0.89
50	**1194**	0.55	2.12	0.25	0.96
60	**1232**	0.60	2.30	0.27	1.04
70	**1271**	0.65	2.49	0.29	1.11
80	**1309**	0.70	2.67	0.31	1.18
90	**1347**	0.75	2.85	0.33	1.26
100	**1385**	0.80	3.03	0.35	1.33
110	**1423**	0.85	3.21	0.37	1.40
120	**1461**	0.90	3.39	0.39	1.47
130	**1498**	0.95	3.57	0.41	1.54
140	**1536**	1.00	3.75	0.43	1.61
150	**1573**	1.05	3.92	0.45	1.68
160	**1611**	1.10	4.10	0.47	1.75
170	**1648**	1.15	4.27	0.49	1.82
180	**1685**	1.20	4.44	0.51	1.89
190	**1722**	1.25	4.61	0.53	1.95
200	**1759**	1.30	4.78	0.55	2.02

RF scroll springs for contact sensors

Application range: 15 – 45 mm pipe diameter