

Room Temperature Sensors with Set Point Adjustment

TEHR-P room temperature sensors are designed for temperature detection of indoor spaces.

Housing of white plastic. Mounting on surface or on a flush mounted box.

Temperature is detected by a range of thermistors and resistive elements with nominal resistances (see table overleaf).

The sensors come with 10kOhm potentiometer for the set-point adjustment. The scale marking on the sensor cover typically represent $\pm 3^{\circ}\text{C}$, but can typically be scaled according to your requirements within the control system you use.

The sensors are also available with a range of different potentiometer values and resistor circuits on request.

Additional LED to indicate the plant operation and a momentary push button are other available options on request. Please contact SyxthSense sales for the special requests T: 0870 20 80 100
Email: sales@syxthsense.com

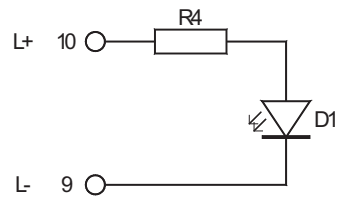
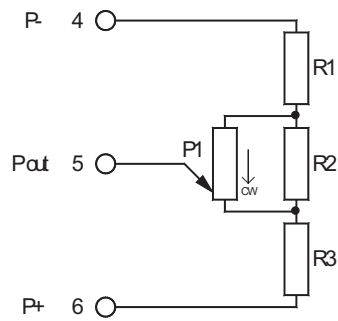
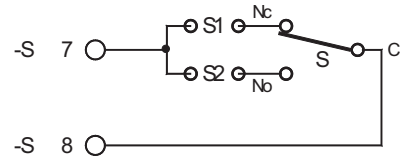
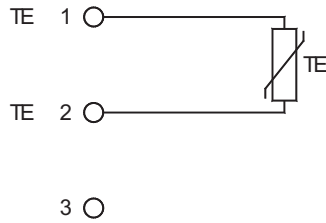


Model Types	Model	Description
	TEHR1000-P	PTC1000 Room Temperature Sensor
	TEHRP1000-P	PT1000 Room Temperature Sensor
	TEHRNT10-P	NTC10 Room Temperature Sensor (Trend, Johnson and Saia equivalent)
	TEHRNTC20-P	NTC20 Room Temperature Sensor (Honeywell equivalent)
	TEHRNI1000-LG-P	NI1000 Room Temperature Sensor (Landis & Staefa equivalent)
	TEHRNTC10-KB-P	NTC10 Linearised Room Temperature Sensor (Satchwell equivalent)
Technical Data	Sensor Element	TEHR 1000 - 1000 Ω PTC thermistor TEHR PT1000 - Pt1000 EN 60751/B TEHR NTC10 - 10k Ω NTC thermistor TEHR NTC20 - 20k Ω NTC thermistor TEHR NI1000-LG - Ni1000-LG TEHR NTC10-KB - Linearised 10k Ω NTC thermistor
	Accuracy	TEHR 1000 - $\pm 1.3^{\circ}\text{C}$ (at 25 $^{\circ}\text{C}$) TEHR PT1000 - $\pm 0.3^{\circ}\text{C}$ (at 0 $^{\circ}\text{C}$) TEHR NTC10 & TEHR NTC20 - $\pm 0.2^{\circ}\text{C}$ (at 25 $^{\circ}\text{C}$) TEHR NI1000-LG - $\pm 0.4^{\circ}\text{C}$ (at 0 $^{\circ}\text{C}$) TEHR NTC10-KB - $\pm 0.3^{\circ}\text{C}$ (at 25 $^{\circ}\text{C}$)
	Set Point Adjustment	10kOhm potetiometer (other values and resistor circuits available on request)
	Housing	IP 20
	Range	0...50 $^{\circ}\text{C}$

Wiring Terminals

- 1 Sensor
- 2 Sensor
- 3 not in use
- 4 potentiometer -
- 5 potentiometer (output)
- 6 potentiometer+

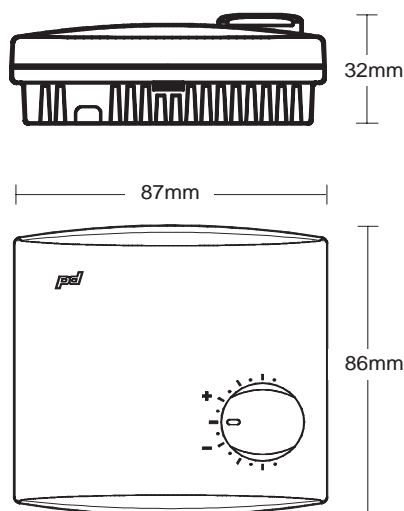
Wiring Diagram



Temperature/Resistance

°C	PTC1000/Ω	PT1000/Ω	NTC10/Ω	NTC20/Ω	Ni1000-LG/Ω	NTC10-KB/Ω
120	1923	1460.6	389.0	609	1616.4	466
100	1700	1385.0	680.0	1114	1500.0	721
90	1594	1347.0	917.7	1541	1444.4	921
80	1492	1308.9	1258.0	2166	1390.1	1193
75	1442	1289.8	1480.0	2585	1363.5	1364
70	1394	1270.7	1752.0	3099	1337.1	1563
65	1347	1251.6	2082.0	3732	1311.1	1792
60	1300	1232.4	2488.0	4517	1285.4	2056
55	1254	1213.2	2968.0	5494	1260.1	2358
50	1209	1194.0	3603.0	6718	1235.0	2702
45	1166	1174.7	4368.0	8259	1210.2	3089
40	1123	1155.4	5327.0	10211	1185.7	3518
35	1081	1136.1	6532.0	12698	1161.5	3987
30	1040	1116.7	8057.0	15887	1137.6	4492
25	1000	1097.3	10000.0	20000	1114.0	5025
20	961	1077.9	12490.0	25350	1090.7	5573
15	923	1058.5	15710.0	32346	1067.6	6125
10	886	1039.0	19900.0	41567	1044.8	6667
5	850	1019.5	25400.0	53812	1022.3	7152
0	815	1000.0	32650.0	70203	1000.0	7661
-5	781	980.4	42340.0	92322	978.0	8093
-10	748	960.9	55330.0	122431	956.2	8472
-15	716	941.2	72980.0	163777	934.7	8796
-20	685	921.6	97070.0	221088	913.5	9067
-25	655	901.9	130400.0	301297	892.5	9288
-30	625	882.2	177000.0	414698	871.7	9465
-40	570	842.7	336500.0	810861	830.8	9711
-50	518	803.1	670100.0	1659082	790.9	N/A

Dimensions



Dimensions: 87 x 86 x 32mm
 Mounting: surface 60mm wall box
 Material: ABS

