

Outdoor Temperature Sensors

TEU temperature sensors are designed for automatic HVAC systems to detect outdoor temperature. Housing is made of weather-proof plastic.

The screw cover and the terminal blocks tilted to 45° make an easy installation. Temperature is detected by a range of thermistors and resistive elements with nominal resistances (see table overleaf).

Sensor is mounted on the wall by means of screws through the mounting brackets on either side of the sensor, or through the installation entries inside the enclosure.



Model Types	Model	Description
	TEU 1000	PTC1000 Outdoor Temperature Sensor
	TEU PT1000	PT1000 Outdoor Temperature Sensor
	TEU NTC10	NTC10 Outdoor Temperature Sensor (Trend, Johnson and Saia equivalent)
	TEU NTC20	NTC20 Outdoor Temperature Sensor (Honeywell equivalent)
	TEU NTC1800	NTC1800 Outdoor Temperature Sensor (TAC equivalent)
	TEU NI1000-LG	NI1000 Outdoor Temperature Sensor (Landis & Staefa equivalent)
	TEU NTC10-KB	NTC10 Linearised Outdoor Temperature Sensor (Satchwell equivalent)
	TEU NTC10-AN	NTC10-AN Outdoor Temperature Sensor (Andover Equivalent)
Technical Data	Sensor Element	TEU 1000 - 1000Ω PTC thermistor TEU PT1000 - Pt1000 EN 60751/B TEU NTC10 - 10kΩ NTC thermistor TEU NTC20 - 20kΩ NTC thermistor TEU NTC1800 - 1800kΩ NTC thermistor TEU NI1000-LG - Ni1000-LG TEU NTC10-KB - Linearised 10kΩ NTC thermistor TEU NTC10-AN - 10k4A1 NTC thermistor
	Accuracy	TEU 1000 - ±1.3°C (at 25°C) TEU PT1000 - ±0.3°C (at 0°C) TEU NTC10, TEU NTC20, TEU NTC10-AN & TEU NTC1800 - ±0.2°C (at 25°C) TEU NI1000-LG - ±0.5°C (at 0°C) TEU NTC10-KB - ±0.3°C (at 25°C)
	Housing	plastic (<120°C)
	Protection class	IP 54, cable entry
	Cable entry	M16
	Range	-50°C...+120°C

Temperature/Resistance

°C	PTC1000/Ω	PT1000/Ω	NTC10/Ω	NTC20/Ω	Ni1000-LG/Ω	NTC10-KB/Ω	NTC10-AN/Ω	NTC1800/Ω
120	1923	1460.6	389.0	609	1616.4	466	483	N/A
100	1700	1385.0	680.0	1114	1500.0	721	817	N/A
90	1594	1347.0	917.7	1541	1444.4	921	1084	N/A
80	1492	1308.9	1258.0	2166	1390.1	1193	1458	N/A
75	1442	1289.8	1480.0	2585	1363.5	1364	1700	N/A
70	1394	1270.7	1752.0	3099	1337.1	1563	1990	N/A
65	1347	1251.6	2082.0	3732	1311.1	1792	2339	N/A
60	1300	1232.4	2488.0	4517	1285.4	2056	2760	542
55	1254	1213.2	2968.0	5494	1260.1	2358	3271	634
50	1209	1194.0	3603.0	6718	1235.0	2702	3893	744
45	1166	1174.7	4368.0	8259	1210.2	3089	4656	878
40	1123	1155.4	5327.0	10211	1185.7	3518	5594	1042
35	1081	1136.1	6532.0	12698	1161.5	3987	6754	1243
30	1040	1116.7	8057.0	15887	1137.6	4492	8197	1491
25	1000	1097.3	10000.0	20000	1114.0	5025	10000	1800
20	961	1077.9	12490.0	25350	1090.7	5573	12268	2187
15	923	1058.5	15710.0	32346	1067.6	6125	15136	2675
10	886	1039.0	19900.0	41567	1044.8	6667	18787	3295
5	850	1019.5	25400.0	53812	1022.3	7152	23462	4090
0	815	1000.0	32650.0	70203	1000.0	7661	29490	5117
-5	781	980.4	42340.0	92322	978.0	8093	37316	6456
-10	748	960.9	55330.0	122431	956.2	8472	47549	8217
-15	716	941.2	72980.0	163777	934.7	8796	61030	10556
-20	685	921.6	97070.0	221088	913.5	9067	78930	13696
-25	655	901.9	130400.0	301297	892.5	9288	102890	17959
-30	625	882.2	177000.0	414698	871.7	9465	135233	23811
-40	570	842.7	336500.0	810861	830.8	9711	239831	43409
-50	518	803.1	670100.0	1659082	790.9	N/A	N/A	N/A

Dimensions

