

Temperature Sensors for Refrigeration Equipment

TEKY temperature sensors are designed for automatic HVAC & refrigeration systems to detect refrigeration equipment temperatures.

Temperature is detected by a range of thermistors and resistive elements with nominal resistances (see table overleaf). Sensor, inserted inside a metal sleeve, is coupled to the measuring system by means of ca 2m connecting cable.



Model Types	Model	Description
	TEKY 1000	PTC1000 Temperature Sensor for Refrigeration Equipment
	TEKY PT1000	PT1000 Temperature Sensor for Refrigeration Equipment
	TEKY NTC10	NTC10 Temperature Sensor for Refrigeration Equipment (Trend, Johnson and Saia equivalent)
	TEKY NTC20	NTC20 Temperature Sensor for Refrigeration Equipment (Honeywell equivalent)
	TEKY NI1000-LG	NI1000 Temperature Sensor for Refrigeration Equipment (Landis & Staefa equivalent)
	TEKY NTC10-KB	NTC10 Linearised Temperature Sensor for Refrigeration Equipment (Satchwell equivalent)
Technical Data	Sensor Element	TEKY 1000 - 1000Ω PTC thermistor TEKY PT1000 - Pt1000 EN 60751/B TEKY NTC10 - 10kΩ NTC thermistor TEKY NTC20 - 20kΩ NTC thermistor TEKY NI1000-LG - Ni1000-LG TEKY NTC10-KB - Linearised 10kΩ NTC thermistor
	Accuracy	TEKY 1000 - ±1.3°C (at 25°C) TEKY PT1000 - ±0.3°C (at 0°C) TEKY NTC10 & TEKY NTC20 - ±0.2°C (at 25°C) TEKY NI1000-LG - ±0.4°C (at 0°C) TEKY NTC10-KB - ±0.3°C (at 25°C)
	Sleeve	Ø6mm
	Connecting cable	Ø2.8mm x 2m
	Range	-30°C...80°C

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

