

DATASHEET

ET244

Evikon

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Self-adhesive temperature sensor ET244



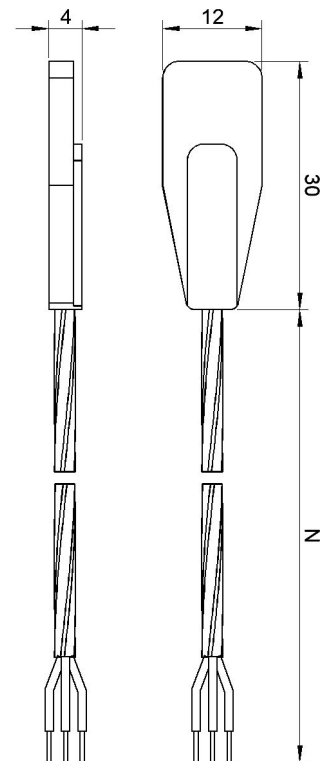
Features

- Pt100, Pt1000, Nickel RTD or NTC thermistor
- -40...+150 °C operation
- Flexible silicone rubber sensor protection
- Self-adhesive film backing
- Surface temperature measurement

Specifications

Sensing element options	Pt100 or Pt1000 EN60751 class F0.15 or F0.3 Ni1000 or Ni1000 DIN43760 or LG curve Customer specified NTC thermistor, Curves A, B, C, D, F or as specified R tolerance @ +25 °C P: ±1 % Q: ±2 % R: ±5 % β tolerance X: ±0,2 % Y: ±0,5 % Z: ±1,0 %
Sensor protection patch	Flexible silicone rubber Dimensions 30×12×4 mm Protection class IP67 Bottom attached acrylic adhesive film
Cable options	3 or 4 wires PVC (-V), silicone (-S) or fluoroplast (-F) insulation Length N = 1, 2, 5, 10 m

Ordering example: ET244-Pt100-F2



Resistance values of common NTC thermistors and RTDs, kOhm

Sensor element type	Temperature, °C	-40	-25	0	+25	+50	+75	+100	+125
NTC1,8 kOhm $\beta_{25/85}=3695$	C curve (E+E, S+S)	43	18	5,1	1,8	0,73	0,34	0,17	0,08
NTC1,8 kOhm $\beta_{25/85}=3435$	F curve (Produal, TAK, CSI)	36	16	4,9	1,8	0,75	0,35	0,18	-
NTC2,2 kOhm $\beta_{25/85}=3975$	A curve (Johnson)	76	29	7,4	2,25	0,81	0,33	0,15	0,08
NTC3 kOhm $\beta_{25/85}=3942$	B curve (Siemens)	97	39	9,9	3,0	1,08	0,44	0,21	0,11
NTC10 kOhm $\beta_{25/85}=3975$	A curve (Trend)	343	132	32,8	10,0	3,6	1,5	0,68	0,33
NTC10 kOhm $\beta_{25/85}=3695$	C curve (Andower)	241	104	29,6	10,0	3,9	1,7	0,82	0,44
NTC10 kOhm $\beta_{25/85}=3435$	F curve (Carel)	189	86	27,3	10,0	4,2	1,9	0,97	-
NTC20 kOhm $\beta_{25/85}=4262$	D curve (Honeywell)	785	294	69,4	20,0	6,8	2,6	1,1	0,54
NTC100 kOhm $\beta_{25/85}=4262$	D curve	4070	1510	350	100,0	34	13	5,6	2,6
Pt1000 $\alpha=3850$ ppm/K	EN 60751	0,843	0,902	1,000	1,097	1,194	1,290	1,385	1,479
Ni1000 $\alpha=5000$ ppm/K	LG (Siemens)	0,831	0,893	1,000	1,114	1,235	1,364	1,500	1,645
Ni1000 $\alpha=6178$ ppm/K	DIN 43760	0,791	0,919	1,000	1,141	1,291	1,450	1,618	1,796