

# Self-adhesive temperature sensor ET244



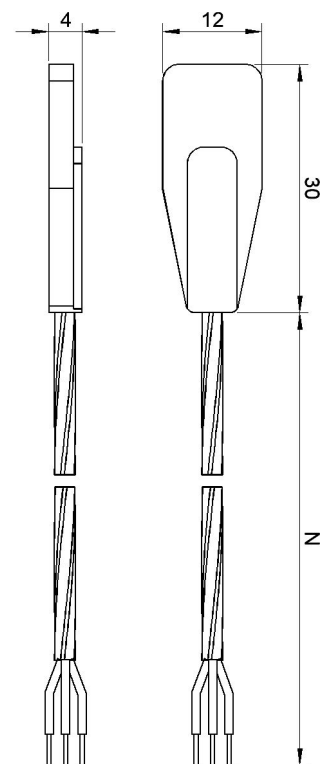
## Features

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



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