

STS

Temperature sensor



Benefits

- Temperatures from -40°C up to +170°C
- Excellent long-term temperature stability
- High precision and reliability
- No polarity reversal (+/-) possible

Applications

- Household appliances
- Electronics
- Engineering
- Automotive



MICROTHERM



Microtherm International Corporation

Technical data

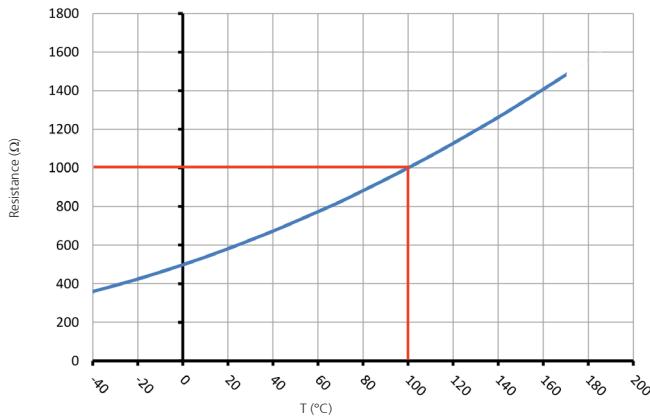
| ratings | type | STS1 |
|--------------------------------------|------|------------------------|
| typ. resistance at 100°C (+-3%) | | 1000 Ω |
| operating temperature range | | -40°C ... +170 (190)°C |
| min. insulation resistance (100 Vdc) | | 100 MΩ |
| max. operating current | | 8 mA |
| rated current | | 5 mA |
| max. rated power | | 50 mW |

Standard types

| type execution | illustration | drawing dimensions (mm) | technical description |
|----------------|--------------|-------------------------|--|
| STS1 G918 | | | housing PPS leads ETFE, AWG24, white |
| STS1 U129 | | | shrink sleeve Kynar® leads ETFE, AWG24, white |

Temperature vs. resistance

| T°C | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| min. | 340 | 370 | 403 | 437 | 474 | 514 | 555 | 599 | 645 | 694 | 744 | 797 | 852 | 910 | 970 | 1029 | 1089 | 1152 | 1216 | 1282 | 1350 | 1420 |
| typ. | 359 | 391 | 424 | 460 | 498 | 538 | 581 | 626 | 672 | 722 | 773 | 826 | 882 | 940 | 1000 | 1062 | 1127 | 1194 | 1262 | 1334 | 1407 | 1482 |
| max. | 379 | 411 | 446 | 483 | 522 | 563 | 607 | 652 | 700 | 750 | 801 | 855 | 912 | 970 | 1030 | 1096 | 1164 | 1235 | 1309 | 1385 | 1463 | 1544 |



Ordering example

STS1 1000 3 L360 500 G918

- Housing number
- Length of leads (+/- 10 mm)
- Leads white, AWG24, ETFE
- Tolerance (%)
- R at 100°C
- Type of sensor

Remark: Electric resistance values correspond to KTY84.
Above 170°C the sensor may loose its linearity.

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