

STS-04 Surface high-temperature sensor

Basic characteristic

- ▲ STS-04 has high temperature measuring range up to 250°C.
- ▲ STS-04 has small dimensions



Benefits

- ▲ High temperature range segregated from ambient environment.
- ▲ Direct surface mountable.
- ▲ Ruggedized housing applicable in harsh environment.

Applications

- ▲ Surface temperature measurement
- ▲ Chemical and oil & gas applications.

Performance properties

Temperature range ¹⁾	-50°C up to +250°C
Temperature accuracy (guaranteed) ²⁾	1% FS ⁴⁾
Temperature accuracy (typical) ²⁾	0,8% FS ⁴⁾
Temperature precision (guaranteed) ³⁾	±0,3 % FS ⁴⁾
Temperature precision (typical) ³⁾	±0,2% FS ⁴⁾
Temperature resolution	0,1°C
Ingress Protection rating	IP 65

¹⁾ Temperature resistance up to 300°C. Calibration range to be agreed with client based on the project requirements.

²⁾ Accuracy is established for each individual sensor under laboratory conditions and it includes hysteresis, non-linearity, and repeatability of the sensor.

³⁾ Precision is established on a batch basis and it includes hysteresis, non-linearity, repeatability and reproducibility of the sensor.

⁴⁾ FS: full scale range

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Physical properties

Housing material	Stainless steel SS316L and copper
Dimensions (without cable) ¹	Ø34mm x 9.5mm
Weight (without cable)	100g
Cable type	3mm Stainless steel tubing / 3mm Dyneema tubing
Cable length ²	2mtr
Cable Bend Radius (dynamic)	30mm
Cable Bend Radius (static)	15mm
Connector type ³	FC/APC
Mounting method	Direct surface mounting

¹) For further dimensions details see the product drawing

²) Cable length is extendable on request

³) Other connector types available on request

Packaging

Cardboard box with dimensions: 370x290x45mm

Quality statement

STS-04 sensor is compliant with IEC 61757:2018

All sensors are 100% tested and calibrated at SYLEX.

Sensor is manufactured according to ISO 9001:2008 and ISO 14001:2004.

Optional accessories

- ▲ **WCP-01 Watertight connector protection** – used for FC/APC connector protection during the installation against dust and water – IP67 rated.
- ▲ **LCP-03 Longer cable pigtails** – used to extend the cable lengths from 1mtr up to 20mtr.

For more information contact our sales team at sales@sylex.sk

* Specifications are subject to change without notice