sylex® FIBER OPTICS

STS-04 Surface high-temperature sensor

Basic characteristic

▲ STS-04 is a high-temperature contact temperature sensor with a wide measuring range of up to 250°C.

▲ STS-04 features small dimensions and has optimized construction for mitigating ambient temperature transition to the sensing core.

Benefits

▲ Contact temperature measurement with improved temperature isolation from the ambient environment.

▲ Direct surface mountable.

▲ Ruggedized housing deployable 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
Temperature sensitivity	11 pm/°C
Ingress Protection rating	IP 65

[1] Survival temperature for up to 300°C. Calibration range to be agreed with the client based on the project requirements.

[2] Accuracy is established for each 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

Physical properties

Housing material[1]	Stainless steel SS316L and CW004A Cu-ETP
Dimensions (without cable)[2]	Ø34mm x 9.5mm
Weight (without cable)	45g
Cable type	3mm Stainless steel tubing / 3mm Dyneema tubing
Cable length[3]	2mtr
Cable Bend Radius (dynamic)	30mm
Cable Bend Radius (static)	15mm
Connector type[4]	FC/APC
Mounting method	Direct surface mounting

[1] The surface-contact material can be modified on request

[2] For further dimensions details see the product drawing

[3] Cable length is extendable on request

[4] 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.
The 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

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