

STS-03 Surface temperature sensor

Basic characteristic

- ▲ STS-03 is a surface temperature sensor.
- ▲ The design of STS-03 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 applicable in harsh environments.

Applications

- ▲ Surface temperature measurement
- ▲ Temperature compensation

Performance properties

Temperature range	-20°C up to +60°C
Temperature accuracy (guaranteed) ¹⁾	0,80% FS ³⁾
Temperature accuracy (typical) ¹⁾	0,65% FS ³⁾
Temperature precision (guaranteed) ²⁾	±0,30% FS ³⁾
Temperature precision (typical) ²⁾	±0,20% FS ³⁾
Temperature resolution	0,1°C
Temperature sensitivity	11 pm/°C
Ingress Protection rating	IP 66

¹⁾ Accuracy is established for each sensor under laboratory conditions and it includes hysteresis, non-linearity, and repeatability of the sensor.

²⁾ Precision is established on a batch basis and it includes hysteresis, non-linearity, repeatability, and reproducibility of the sensor.

³⁾ FS: full-scale range

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Physical properties

Housing material	Stainless steel SS316L and CW004A Cu-ETP
Dimensions (without cable) ¹⁾	Ø34mm x 9.5mm
Weight (without cable)	45g
Cable type	3mm Dyneema tubing
Cable length ²⁾	1mtr
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-03 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