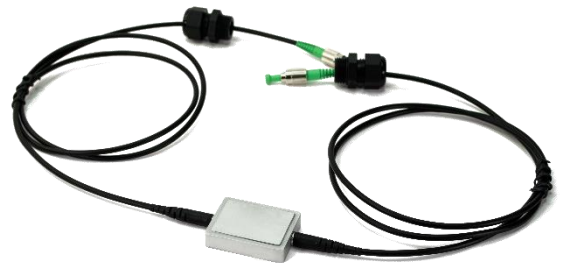


## STS-11 Surface temperature sensor

### Basic characteristic

- ▲ STS-11 is a surface temperature contact sensor with a wide measuring range from -70°C to 150°C.
- ▲ STS-11 features small dimensions and has optimized construction for mitigating and absorbing shock and tension
- ▲ The sensor comes with different cable types based on the desired application temperature range, see the **Physical properties** table on the next page, section **Cable type**



### Benefits

- ▲ Contact temperature measurement with improved temperature resolution and transition.
- ▲ Direct surface mountable.
- ▲ The ruggedized housing is deployable in harsh environments.

### Applications

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

### Performance properties

Temperature range <sup>1)</sup>	-70°C up to +150°C
Temperature accuracy (guaranteed) <sup>2)</sup>	1% FS <sup>4)</sup>
Temperature accuracy (typical) <sup>2)</sup>	0,8% FS <sup>4)</sup>
Temperature precision (guaranteed) <sup>3)</sup>	±0,5 % FS <sup>4)</sup>
Temperature precision (typical) <sup>3)</sup>	±0,3% FS <sup>4)</sup>
Temperature resolution	0,03°C
Temperature sensitivity	38 pm/°C
Ingress Protection rating	IP 66

<sup>1)</sup> Survival temperature for up to 300°C. The calibration range is to be agreed upon with the client based on the project requirements.

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

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

<sup>4)</sup> FS: full-scale range

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### Physical properties

Housing material	Aluminium 7075-T6
Dimensions (without cable) <sup>1)</sup>	40mm x 61mm x 9.5mm
Weight (without cable)	64g
Cable type, -20°C up to 60°C <sup>2)</sup>	3mm Dyneema tubing,
Cable type, -70°C up to 150°C <sup>2)</sup>	900µm PTFE/PEEK tubing, 3mm Stainless Steel tubing
Cable length <sup>3)</sup>	1mtr
Cable Bend Radius (dynamic)	30mm
Cable Bend Radius (static)	15mm
Connector type <sup>4)</sup>	FC/APC
Mounting method	Direct surface mounting

<sup>1)</sup> For further dimensions details see the product drawing

<sup>2)</sup> Cable type is application-dependent, other cable types available on request

<sup>3)</sup> Cable length is extendable on request

<sup>4)</sup> Other connector types available on request

### Packaging

Cardboard box with dimensions: 370x290x45mm

### Quality statement

STS-11 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](mailto:sales@sylex.sk)

\* Specifications are subject to change without notice