

TP-02 Temperature sensor

Basic characteristic

- ▲ TP-02 is temperature sensor with ruggedized housing applicable in harsh environments.
- ▲ TP-02 can be mounted to the desired surface or embedded into the concrete.
- ▲ TP-02 can be connected in series configuration.



Benefits

- ▲ Surface-mountable or embeddable into the concrete.
- ▲ Ruggedized construction.

Applications

- ▲ Temperature measurement.
- ▲ Temperature compensation of strain sensors (typically with MS-01 or ES-01).

Performance properties

Operational temperature range	-20°C up to +60°C
Peak temperature endurance	up to +80°C
Temperature accuracy (guaranteed) ¹⁾	1°C
Temperature accuracy (typical) ¹⁾	<1°C
Temperature precision (guaranteed) ²⁾	±0,3°C
Temperature precision (typical) ²⁾	±0,2°C
Ingress Protection rating	IP 67

¹⁾ Accuracy is established for each individual 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.

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Physical properties

Housing material	Stainless steel SS316L
Dimensions (without cable) ¹⁾	Ø8 mm x 210 mm
Weight (without cable)	130g
Cable type	3mm Dyneema reinforced cable
Cable length ²⁾	1mtr
Cable Bend Radius (dynamic)	40mm
Cable Bend Radius (static)	30mm
Connector type ³⁾	FC/APC
Mounting method	Custom or embeddable

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

TP-02 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