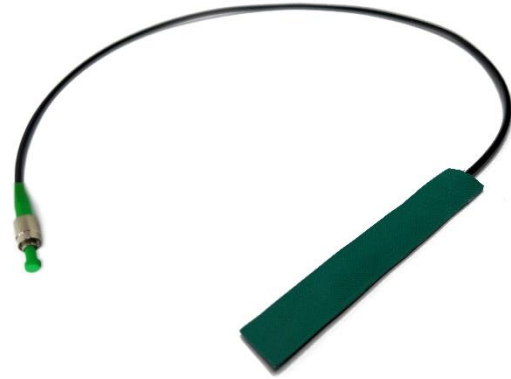


## DTP-02 Dielectric Temperature Patch

### Basic characteristic

- ▲ DTP-02 is a temperature sensor based on FBG technology featuring a composite material with a high flexibility body adaptable to most surface curvatures. The sensor construction allows the installation of the sensor to the measured surface due to the small shape, even on challenging shapes.



### Benefits

- ▲ Surface-mountable.
- ▲ Ruggedized and compact construction.
- ▲ Fully dielectric, with no metallic parts.

### Applications

- ▲ Temperature measurement.
- ▲ Temperature compensation of strain sensors (typically with DSP-01).
- ▲ Curved objects.

### Performance properties

Operational temperature range	-30°C up to +70°C
Peak temperature endurance	up to +80°C
Temperature accuracy (guaranteed) <sup>1)</sup>	1°C
Temperature accuracy (typical) <sup>1)</sup>	<1°C
Temperature precision (guaranteed) <sup>2)</sup>	±0,4°C
Temperature precision (typical) <sup>2)</sup>	±0,3°C
Temperature resolution	0,1°C
Temperature sensitivity	10pm/°C
Ingress Protection rating	IP66

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

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

## DTP-02 Dielectric Temperature Patch

### Physical properties

Housing material	GFRP (composite)
Anchoring distance	n/a
Dimensions (without cable) <sup>1)</sup>	100mm x 15 x 5mm (L x W x H)
Weight (without cable)	Around 30g
Cable type	900µm PTFE/PEEK / 3mm Dyneema reinforced tubing
Cable length <sup>2)</sup>	1mtr
Cable Bend Radius (dynamic)	40mm
Cable Bend Radius (static)	30mm
Connector type <sup>3)</sup>	FC/APC (single-ended)
Mounting method	Glue

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

<sup>2)</sup> Cable length is extendable on request

<sup>3)</sup> Other connector types available on request

### Packaging

Cardboard box with dimensions: 370x290x45mm<sup>1)</sup>

### Quality statement

DTP-02 sensor is compliant with IEC 61757:2018

All sensors are 100% tested and calibrated at SYLEX

The sensor is manufactured according to ISO 9001:2015 and ISO 14001:2015

### 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