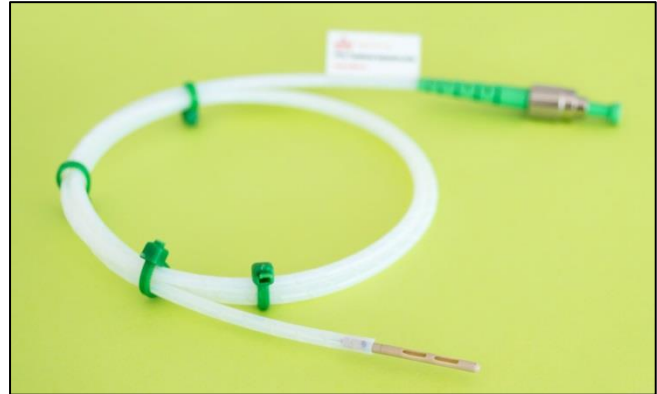


DTP-01 Dielectric temperature probe sensor

Basic characteristic

- ▲ DTP-01 is a dielectric high range temperature probe designed for measuring temperature of transformers windings.
- ▲ DTP-01 offers measuring of temperatures up to 180°C.
- ▲ DTP-01 has small dimension and flexible design.



Benefits

- ▲ High temperature monitoring.
- ▲ Direct mountable or insert-able into monitored area.
- ▲ Flexible cable and chemically resistant materials.

Applications

- ▲ Temperature measurement applicable in fields where dielectric materials is necessity.
- ▲ Transformer windings.
- ▲ Chemical processes.

Performance properties

Temperature range	-30°C – 180°C
Accuracy (guaranteed) ¹⁾	2°C
Accuracy (typical) ¹⁾	<2°C
Precision (guaranteed) ²⁾	±1°C
Precision (typical) ²⁾	±0,8°C
Temperature resolution	0,1°C
Ingress Protection rating	Open design

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.

DTP-01 Dielectric temperature probe sensor

Physical properties

Housing material	PEEK
Dimensions (without cable) ¹⁾	Ø2 mm x 26 mm
Weight (without cable)	0,1 g
Cable length ²⁾	1mtr
Cable Bend Radius (dynamic)	60mm
Cable Bend Radius (static)	30mm
Connector type ³⁾	FC/APC

¹⁾ For further dimensions details see the product drawing

²⁾ Cable length is extendable on request

³⁾ Other connector types available on request

Dielectric properties

PEEK, Dielectric Strength	> 19000 V/mm
PEEK, Dielectric Constant	> 3,3 @ 1MHz (ASTM D150)
Optical fiber, Dielectric Strength	> 15000 V/mm
Optical fiber, Dielectric Constant	> 3,5 @ 1MHz (ASTM D150)
PTFE, Dielectric Strength	> 18000 V/mm
PTFE, Dielectric Constant	> 2,1 @ 1MHz (ASTM D150)
High performance epoxy, Dielectric Strength	> 19500 V/mm
High performance epoxy, Dielectric Constant	> 2,83 @ 1KHz

Packaging

Cardboard box with dimensions: 370x290x45mm

Quality statement

DTP-01 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

- ▲ Depends on the application requirements

For more information contact our sales team at sales@sylex.sk

* Specifications are subject to change without notice