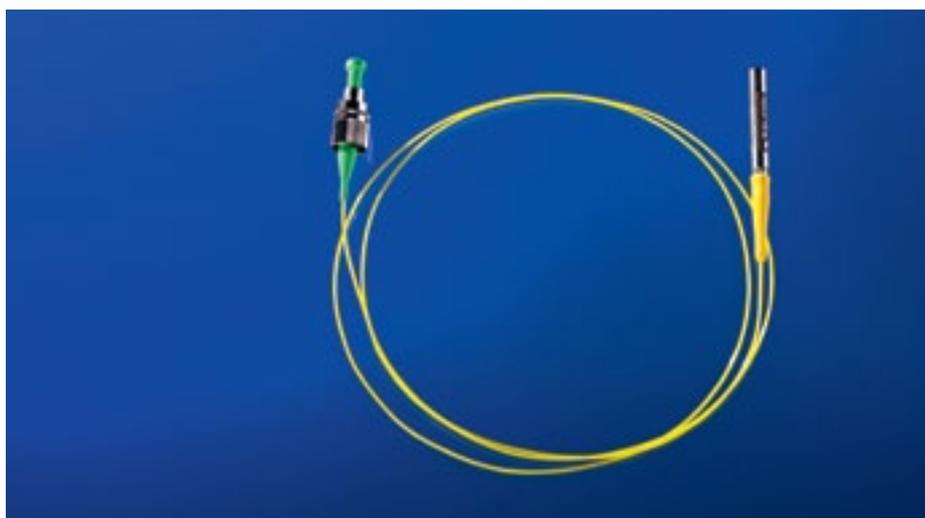


## Temperature Compensation Probe TC-probe

### Fibre Bragg Gratings reinvented

Draw Tower Gratings (DTG<sup>®</sup>s) are produced during the drawing process of the fibre itself, before the primary coating is applied. This is a cost effective production process for high quality Fibre Bragg Gratings. This offers unique characteristics such as extremely high breaking strength, insensitivity to bending, spliceless array configurations and uniform coating coverage. FBG parameters and coating material can be selected based on customer needs.



#### Description

The Temperature Compensation Probe TC-probe is used to compensate strain measurements for thermal influences. The probe is compact in order to measure the temperature very locally and in close vicinity of the strain sensor(s). The probe has a stainless steel housing and has a connector on one end.

#### Features

- Compact temperature probe for temperature compensation of strain measurements
- High precision and excellent long-term stability
- Wide temperature operating range
- Single ended configuration

#### Standard specification

Parameter	Value
Temperature resolution <sup>1</sup>	0.1°C
Temperature precision <sup>1</sup>	0.2°C
Sensor temperature range <sup>2,3</sup>	-20°C to +110°C
Sensor length	58 mm
Housing diameter	5 mm
Housing material	SS316
Pigtail diameter	0.9 mm
Pigtail length <sup>3</sup>	1 m
Pigtail material	PVDF
Connector type	FC/APC

<sup>1</sup> Using a depolarized measurement device with a 1 pm wavelength resolution and precision.

<sup>2</sup> For the probe not for the connector. For extreme temperatures, splicing is recommended.

<sup>3</sup> Extendable on request.



## Ordering information

Example:

T	C	P	-	X	X	X	X
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Product	
TCP	Temperature compensation probe

Nominal wavelength	
Standard	
1510	1510 nm
1515	1515 nm
1520	1520 nm
1525	1525 nm
1530	1530 nm
1535	1535 nm
1540	1540 nm
1545	1545 nm
1550	1550 nm
1555	1555 nm
1560	1560 nm
1565	1565 nm
1570	1570 nm
1575	1575 nm
1580	1580 nm
1585	1585 nm
Strain Gage Kit refills	
TA	1562.5 nm
TB	1564.0 nm
Custom : Contact sales department	

This product has been developed in the framework of a joint collaboration between the Belgian Science Policy and the Federal Public Service of Economy, SMEs, Independent Professions and Energy of Belgium.

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