

## Temperature Probe TP-01

### Description

The fibre optic temperature probe TP-01 is a high accuracy temperature sensor which can be used in a wide temperature range. The sensor makes use of the intrinsic temperature sensitivity of the Fibre Bragg Grating. The FBG is housed in a stainless steel tube with a diameter of 6 mm. The tube has a pigtail with an FC/APC connector on one end.



### Features

- No serial configuration
- High accuracy because of small hysteresis and excellent wavelength reproducibility
- Wide temperature range
- Watertight and ruggedized housing, applicable in harsh environments
- Embeddable in concrete

### Applications

High accuracy temperature sensing in a fibre optic sensing network for various purposes. Applicable both indoors as well as outdoors.



## Standard specifications

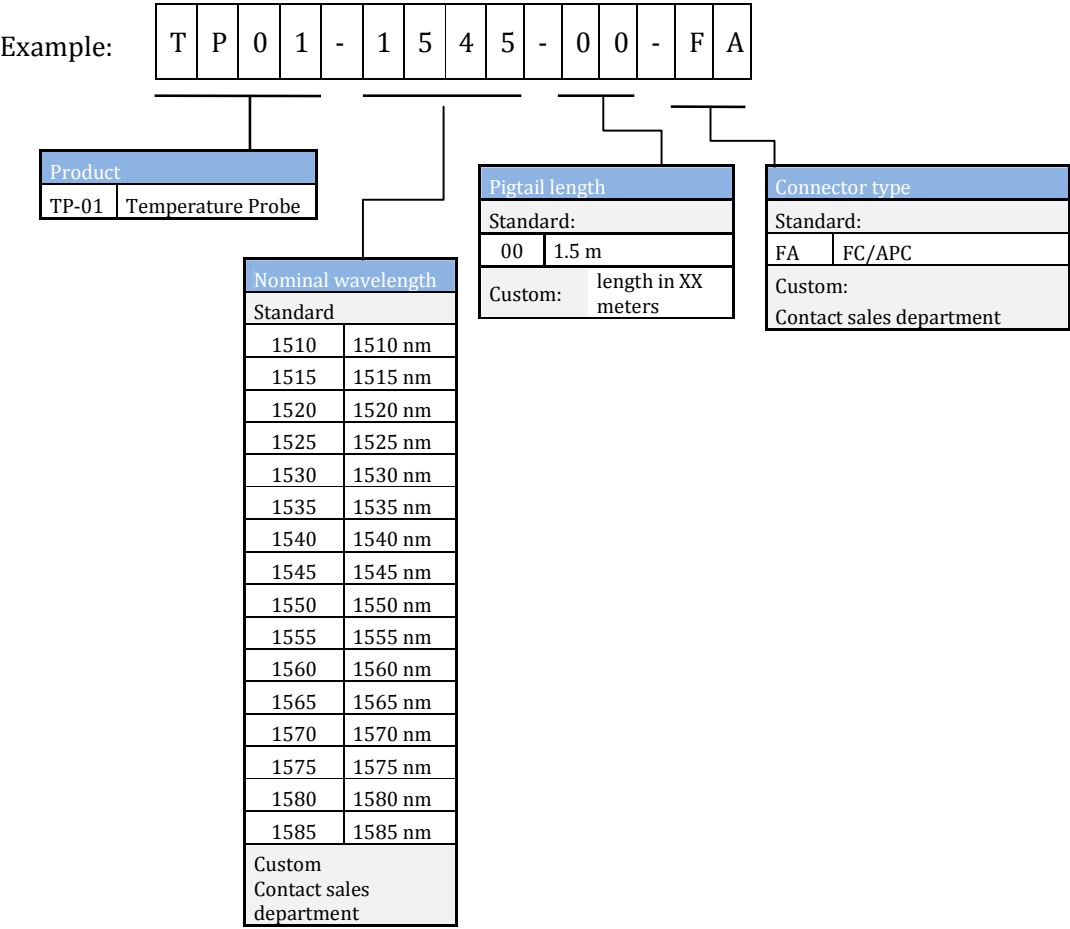
Parameter	Value
Temperature accuracy <sup>1</sup>	1 °C
Temperature sensitivity	10 pm/°C (typical)
Temperature range	-45 °C to +130 °C
FBG wavelength	1510 nm to 1590 nm
Sensor length	11 cm
Housing diameter	6 mm
Housing material	SS316
Pigtail diameter	3 mm
Pigtail length <sup>2</sup>	1.5 m
Pigtail material	LDPE
Connector type	FC/APC
Water tightness	IP68

<sup>1</sup> The sensor accuracy does not contain error sources originating from the read-out equipment.

<sup>2</sup> Extended on request.



## Ordering information





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