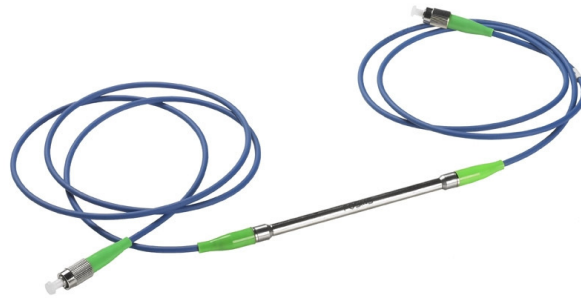


Temperature Probe TP-02

Description

The fibre optic temperature probe TP-02 is a high resolution temperature sensor. The packaged FBG is positioned inside a stainless steel tube with a diameter of 6 mm and is terminated with a pigtail with FC/APC connector.



Features

The temperature probe TP-02 can measure temperatures with a resolution of 0.04 °C and an accuracy of 0,4°C. The sensor can be used in harsh environments and is watertight according to IP68 BSEN60529.

The sensor is connectorised at both ends to make series configurations possible.

Applications

Pipeline monitoring, process control, ...

Standard specifications

Parameter	Unit	Value
Temperature resolution	°C	0,04
Temperature accuracy	°C	0,4
Temperature range	°C	-10 to +85
Diameter stainless steel tube	mm	6
Housing material	-	SS316
Pigtail diameter	mm	3
Pigtail length	m	1,5
Pigtail material	-	LDPE
FBG central wavelength (in steps of 5nm)	nm	1515 to 1585
Connector type	-	FC/APC
Water tightness	-	IP68 BSEN60529 ¹

¹10 bar for 12 hours

Extended temperature range possible on request

Note: The reported resolution value assumes the use of a measurement unit with a resolution of 1 pm.