



Gradient FBG based temperature sensor with two measuring points. Temperature range from -30 °C up to 60 °C. Completely passive sensors, ideal for gradient measurement in concrete constructions, nuclear power plant containments, bridges, dams, etc.

SPECIFICATION

Measure range	-30 °C to 60 °C
Sensor type	FBG
IP code	IP67
Materials	Stainless steel DIN 1.4301, POM-C, Aluminum EN AW-6060
Dimensions	ø15mm x 121 mm
Cord type	Optical fiber G.657.A2, protected by furcation and stainless tube.
Temperature sensitivity	~ 33 pm / °C
Wavelength	~ 1550 nm
FWHM	~ 100 pm
OSNR	~ 10 dB
Connector	LC/APC, FC/APC or SC/APC
Calibration	2, 3 point or customer defined / calibrated by ČSN EN ISO/IEC 17025

Key features:

- Long term stability, high accuracy and measurement repeatability
- Sensors could be placed up to several km far from interrogation unit
- Passive optical sensor
- Immune for electromagnetic radiation EMI/RFI
- Constant measurement error in full range
- Suitable for explosive areas

Application:

- Advance industrial applications
- Measurement in special reinforced concrete structure
- Nuclear power plant containments
- SHM – bridges, dams, tunnels

Drawing:

