

Article Overview

Key Portuguese manufacturers of fiber optic sensors include FiberSight and HBK FiberSensing, offering advanced solutions for temperature, humidity, strain, and structural monitoring.

FiberSight

FiberSight is a Portuguese technology company and CERN startup specializing in smart sensing solutions using optical fibers as sensory elements . Their technology can measure temperature, humidity, and strain along optical fibers, enabling real-time monitoring over kilometers with a single acquisition system . Applications include:

- o Water leak detection
- o Industrial process optimization
- o Agricultural irrigation
- o Structural health monitoring FiberSight's sensors are engineered for harsh environments, providing high precision and extensive coverage with minimal maintenance . Their system can detect events with location accuracy up to 1 meter over distances exceeding 25 km, and it allows integration with existing monitoring platforms .

HBK FiberSensing

HBK FiberSensing, founded in Porto in 2004, is a world leader in Fiber Bragg Grating (FBG) technology . The company develops and produces optical sensors, interrogators, and software for measuring:

- o Strain
- o Temperature
- o Tilt
- o Acceleration
- o Displacement HBK FiberSensing serves markets such as civil and geotechnical engineering, energy, industry, and R&D . Their solutions include custom OEM systems and full monitoring projects, with sensors and measurement units deployed globally. The company is certified under ISO 9001:2015 standards, ensuring high-quality production and reliability .

Other Notable Companies

While not exclusively focused on fiber optic sensors, other Portuguese companies like Sarspec provide optical fibers and probes for spectroscopy, which can be adapted for certain optical sensing applications .

Additionally, companies like Tekon Electronics and PLUX offer advanced sensor technologies that may complement fiber optic monitoring in industrial or biomedical contexts .

Summary

For fiber optic sensing in Portugal, FiberSight and HBK FiberSensing are the primary manufacturers offering comprehensive solutions for temperature, humidity, strain, and structural monitoring. FiberSight emphasizes long-distance, real-time environmental monitoring, while HBK FiberSensing focuses on FBG-based structural and industrial applications. Both companies provide integration capabilities and high-precision sensors suitable for demanding environments.

3 The manufacturer of the optical fibre sensors Alberto Maia is responsible for manufacturing FiberSensing's optical fibre sensors.

Sensuron is a global provider of compact fiber optic sensing systems that use light across thousands of sensors to test and measure

When exploring the Fiber Optic Cable Manufacturing industry in Portugal, several key considerations emerge. The regulatory

Há duas décadas, "um grupo de investigadores visionários" decidiu lançar-se numa aventura empresarial para levar

This is the supplier profile of HBK FiberSensing, S.A., with address and other contact information, and with

Operating from Porto, Portugal, our dedicated team specialises in the development, design, and manufacturing of Fiber Bragg

Specializes in the development and production of advanced monitoring systems based on optical fiber Bragg grating (FBG)

In addition to designing and manufacturing components and test equipment for fiber optics markets, the company offers award

Find Portugal Fiber Optic manufacturers & suppliers with shipment details on Trademo. Access global exporters database and gain

Distributed Temperature Fiber Optic Sensor Cables (DTS) This technology makes use of fiber optic sensor

cables, typically over

Discover all relevant Optical Sensor Manufacturers in Portugal, including Vision-Box and PLUX Biosignals

Monitoring infrastructure via continuous, kilometer-scale fiber-optic sensors, driving efficiency and sustainability.

Discover all relevant Sensor Manufacturers in Portugal, including PLUX Biosignals and Janz - Contagem e Gest#227;o de Flu#237;dos S.A.

About HBK FiberSensing S.A., Optical Business Specializes in the development and production of advanced monitoring systems

The Optical Sensor industry in Portugal is influenced by several key considerations that potential investors or researchers should be

FiberSight provides innovative, reliable and cost-effective fibre optic sensing solutions for various industries.

Web: <https://www.supremeacademicresearch.co.za>

