

Portuguese Fiber Optic Temperature Sensor Factory



Overview

Founded in 2004 in Porto, Portugal, as FiberSensing, the company offers the most complete portfolio of FBG sensors to measure strain, temperature, tilt, acceleration, and displacement, as well as measurement units and software packages for interconnection to external systems. Fiber Bragg Grating (FBG) temperature sensors enable multipoint measurements over long distances, even in harsh environments, for reliable monitor Glue-on temperature sensor for diverse surfaces and materials. HBK FiberSensing is a business subsidiary of HBK – Hottinger Brüel & Kjær and a world leader in the development and production of advanced monitoring systems based on optical Fiber Bragg Grating (FBG) technology. Certified ISO 9001 and ISO 40005 standards. Opened in May 2025, the new site is five times larger than the previous one and will serve as a key European hub for. Our fiber optic sensors use a Gallium Arsenide (GaAs) crystal at the fiber tip, making them ideal for highly accurate temperature measurements in environments exposed to microwave radiation and high-frequency interference. The three core technologies are fluorescent fiber optic sensors, distributed temperature sensing (DTS).



Article Content

Fiber-optic sensing tech strives to move beyond the niche

The aim was to develop a range of fiber Bragg grating (FBG) sensors to measure strain, temperature, displacement, etc. for civil engineering, energy, aerospace,

Fiber Optic Temperature Sensor: Complete Guide to Advanced Optical ...

Fiber optic temperature sensors represent the cutting-edge of industrial temperature measurement technology, offering unparalleled accuracy, reliability, and safety in demanding

Top 10 Best Fiber Optic Temperature Sensor Manufacturing and

Choosing the best supplier for the production and manufacturing of fiber optic temperature sensors requires comprehensive consideration of multiple factors, including product

Fiber Optic Sensor And Related Applications

Fiber Optic Sensor And Related Applications Utility companies around the world are more than ever working to improve the management of the critical assets that are

Temperature fiber-optic point sensors: Commercial technologies and ...

Abstract—Temperature fiber-optic point-sensors have been commercialized for about two decades. Among the various available optical sensing technologies, only few ones have lead to commercial ...

Top 10 Fiber Optic Temperature Sensing System Manufacturers

Fiber optic temperature sensing systems measure temperature using light transmitted through optical fiber — entirely immune to electromagnetic interference and safe for high-voltage

Fiber Optic Temperature Sensors

With improved temperature stability, these sensors are particularly suited for temperature measurements in large structures and thermal mapping in electrical machines. Moreover, the FS63 temperature

HBK Porto inaugurates new site

Opened in May 2025, the new site is five times larger than the previous one and will serve as a key European hub for OEM sensor production and strain gauge finishing.

Top 10 global manufacturers for fiber optic temperature measurement

Therefore, more and more manufacturers and agents are cooperating and bidding for temperature measurement systems to use fiber optic temperature sensors. There are several types of fiber optic

fiber optic sensing systems Manufacturers serving Portugal

Sensuron is a global provider of compact fiber optic sensing systems that use light across thousands of sensors to test and measure the integrity of materials and improve the performance of engineering

fiber optic distributed sensors Companies serving Portugal

Distributed Temperature Fiber Optic Sensor Cables (DTS) This technology makes use of fiber optic sensor cables, typically over lengths of several kilometers, that function as linear temperature

Twenty years have passed since the creation of FiberSensing, an

Today, the company HBK FiberSensing is at the forefront of the development and supply of fibre optic measurement and monitoring systems for critical physical assets and is preparing to

Top 10 Fiber Optic Temperature Monitoring System Manufacturers in

What Is a Fiber Optic Distributed Temperature Sensing System? A Distributed Temperature Sensing (DTS) system utilizes optical fiber as both sensor and communication medium,

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About HBK FiberSensing S.A., Optical Business Specializes in the development and production of advanced monitoring systems based on optical fiber Bragg grating (FBG) technology. Certified ISO

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