

Article Overview

AP Sensing and Prysmian SensO are key providers of fiber optic temperature-sensing cable systems in Denmark.

AP Sensing

AP Sensing, headquartered in Denmark, specializes in fiber optic sensor cables designed for real-time monitoring of temperature, strain, and acoustic signals in challenging environments . Their sensor cables include various configurations such as metal-tubing, metal-free, tube-in-tube, and armored stainless steel, allowing deployment in harsh industrial conditions. The cables use coatings like polyimide or metal for high-temperature or cryogenic applications, ensuring precise temperature measurements over long distances. AP Sensing systems are widely used in power cable monitoring, fire detection, and industrial process control.

Prysmian SensO

Prysmian, with operations in Denmark, offers the SensO Distributed Temperature Sensing (DTS) cables, which convert optical fibers into continuous temperature sensors . These cables utilize Raman or Brillouin scattering technologies to provide a continuous temperature profile along the cable length. SensO DTS cables are designed for extreme conditions, including fire detection in tunnels, cryogenic monitoring in LNG tanks, and pipeline leak detection, with rapid response and high spatial resolution. The system allows 24/7 monitoring over tens of kilometers with minimal maintenance.

Key Features of Danish Fiber Optic Temperature-Sensing Systems

- o Distributed sensing: Continuous temperature measurement along the entire cable length.
- o High spatial resolution: Sub-meter or even sub-millimeter resolution for precise monitoring.
- o Harsh environment compatibility: Resistant to high/low temperatures, electromagnetic interference, and mechanical stress.
- o Versatile applications: Power cable monitoring, industrial process control, fire detection, LNG and pipeline monitoring.
- o Passive and safe: Optical fibers are electrical insulators, immune to self-heating, and provide galvanic isolation .

Other Danish Optical Sensor Companies

While AP Sensing and Prysmian SensO are leaders in temperature-sensing optical cables, other Danish



Denmark manufacturer of temperature-sensing optical cable systems

companies like ATE Optical and Ibsen Photonics focus on optical sensors and spectrometer modules, which may complement fiber optic sensing systems in industrial or research applications . These Danish manufacturers provide robust, high-precision solutions for distributed temperature monitoring, making them suitable for critical infrastructure, industrial, and safety applications.

Distributed Temperature Sensing (DTS) systems provide temperature information for accurate thermal monitoring, fire detection, and

A Distributed Temperature Sensing (DTS) system monitors temperature over long distances or across large surfaces, it could be

Temperature: -40 °C - 300 °C ... Fiber optic temperature sensing cable, extra small, armored with stainless

The offered DTS controller is manufactured by LIOS Technology based on Prysmian's requirements for power cable temperature

Sensor cable installation components In order to maintain the integrity of the optical path of the Distributed Temperature Sensor

This technology makes use of fiber optic sensor cables, typically over lengths of several kilometers, that function as linear temperature

Protect critical infrastructure with JMV's Distributed Temperature Sensing solution, offering real-time heat

Telco has become synonymous with reliable and versatile optical sensing solutions for the most

What is a Distributed Fiber Optic Temperature Sensor? Yokogawa's DTSX product family is engineered with a variety of fiber optic

As a leading independent provider of fibre optic-based distributed sensing solutions, Silixa exists to secure a safer, more sustainable

Using sensing technology that takes advantage of the characteristics of fiber optic cable, DTSX is a temperature sensor that can be

Top Sensor Companies In Denmark Browse 29 Sensor companies in Denmark, including 29 with websites, 28



Denmark manufacturer of temperature-sensing optical cable systems

with employee

Measure temperature with fiber optic sensors for high-resolution distributed and multipoint monitoring in batteries, processes, and

Fiber Optic Sensing Solutions for Extreme Environments Introduction to Fiber Optic Sensing Lightera is a

Durable fiber optic cables for distributed sensing. Compatible with DAS & DTS systems, ideal for perimeter,

Distributed Temperature Sensing (DTS) systems are a game-changing technology for continuous

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

