

Swedish manufacturer of high-temperature temperature measurement optical cable systems



Article Overview

AP Sensing and Pentronic are leading Swedish providers of high-temperature optical measurement systems and sensor cables.

AP Sensing

AP Sensing specializes in fiber optic sensor cables designed for real-time monitoring of temperature, strain, and acoustic signals in harsh environments . Their optical cables are suitable for high-temperature applications, with coatings such as polyimide or metal to withstand extreme conditions. AP Sensing offers various configurations, including metal-tubing, metal-free, tube-in-tube, and armored stainless steel cables, enabling precise temperature monitoring in industrial facilities, tunnels, pipelines, and other high-risk zones. These systems are widely used in oil, gas, water distribution, and critical infrastructure for continuous temperature and safety monitoring .

Pentronic

Pentronic is a Swedish manufacturer of industrial temperature sensors and measurement equipment, including thermocouples, Pt100 resistance thermometers, and specialized cables . While primarily known for conventional sensors, Pentronic also provides customized high-temperature solutions and can adapt sensor assembl...

Article Content

Oct 25, 2025

Optical Temperature Sensors – fiber Bragg gratings, point sensors ...

This article provides a comprehensive overview of optical temperature sensors, which utilize optical technology, particularly fiber

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Top High-temperature Sensor Manufacturers in Sweden

Discover all relevant High-temperature Sensor Manufacturers in Sweden, including Backer AB and Kanthal

Nov 23, 2025

Distributed Temperature Sensing (DTS) | NKT

Distributed Temperature Sensing (DTS) leverages a physical phenomenon in the optical fiber to gauge

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Fiber Optic Solutions by Fibersystem

Fiber optic cables are more durable than copper and are not affected by corrosion, extreme temperatures, or moisture. Specially

Dec 31, 2025

500°C-Rated Optical Fiber for High Temperature

For temperatures above 300°C, metal coatings would be attractive. Those produced to date

Aug 17, 2025

Fiber Optic Sensors & Transducers its Types and

Manufacturer of High-Performance Fiber Optics Sensors. Delivering Accurate, Reliable Sensing Solutions

Jul 23, 2026

Temperature | DwyerOmega

Wire & Cable support temperature measurement, connection, display, protection, or installation work in industrial, HVAC, laboratory,

Mar 11, 2026

Distributed Temperature Fiber Optic Sensor Cables (DTS)

This approach results in outstanding system reliability (immune to the effects of strain, which can lead to anomalous readings),

Jan 11, 2026

Distributed Sensing Cables for DAS & DTS

Samm Teknoloji's FOTAS sensing cable is a high-performance fiber optic sensor cable compatible with

Apr 06, 2026

Applications of fibre optic temperature measurement

Three common principles of fibre optic temperature measurement are exemplarily examined: fibre Bragg gratings,

Apr 17, 2026

Distributed Temperature Sensing (DTS) | AP Sensing

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

Oct 21, 2025

Review on an Advanced High-Temperature Measurement

Optical fiber thermometry technology for high-temperature measurement is briefly reviewed in this paper. The

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Optical fiber assemblies for high temperature environments

For this type of application, we offer silica/sapphire assemblies for parts located in your high-temperature

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DTSX3000 Distributed Temperature Sensor

What Is Distributed Temperature Sensing? Distributed temperature sensing (DTS) measures temperature distribution over the length

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Sensor cables with state-of-the-art fiber optic sensors | Solifos AG

Solifos' fiber optic sensor cables are suitable for measure temperatures in harsh environments where other methods are not possible.

Jul 27, 2025

Top High-temperature Sensor Manufacturers in Sweden

When exploring the high-temperature sensor industry in Sweden, several key considerations come into play. The regulatory

Sep 03, 2025

Temperature Sensing

Fiber optic temperature sensing as turn-key solution. Our fiber optic temperature sensing solution includes

Apr 26, 2026

Fiber Optic Temperature Sensor DTSX | Yokogawa Europe

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

Aug 29, 2025

Flow, level, liquid analysis, optical analysis, pressure,

People for Process Automation offer you solutions and products in flow, level, liquid analysis, optical

Jan 27, 2026

Temperature Measurement Using Optical Fiber Methods: Overview

The temperature measurement system using the black-body consists of three parts: optical radiation source approaching the

Nov 01, 2025

Fiber Optic Temperature Sensing and Measurement

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

Jun 30, 2026

Fiber Optic Cable | Farnell Sweden

Farnell's fibre optic cables are engineered to provide high-speed, high-bandwidth data transmission over long distances with minimal

Aug 21, 2025

Sweden Substation Temperature Monitoring System Manufacturers

Fuzhou Innovation has been manufacturing fluorescent fiber optic temperature sensors and online substation

Dec 22, 2025

Fiber optics

RISE has been active in fiber optics since the early 1990s. Our expertise covers the entire chain of fiber optic technologies from

Nov 06, 2025

Fiber Optic Temperature Sensors: Types, Working & Applications

Despite their advantages, Fiber Optic Temperature Sensors also have some drawbacks: Different types of optical temperature

Dec 31, 2025

COMEM Group

Our fiber optic sensors use a Gallium Arsenide (GaAs) crystal at the fiber tip, making them ideal for highly

Mar 02, 2026

Distributed temperature sensing

Distributed temperature sensing systems (DTS) are optoelectronic devices which measure temperatures by means of optical fibres

Oct 26, 2025

High-temperature fibers | WEINERT Industries AG

Singlemode and multimode fibers for data communications or light transmission at high temperatures For

Oct 15, 2025

High-temperature fibers | WEINERT Industries AG

For use in higher temperature ranges, all optical fibers based on Fused Silica can be optionally equipped with heat-resistant coating

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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