



High-Resolution Distributed Temperature Sensor

PROTECT AND OPTIMIZE YOUR ASSETS 24/7



A single optical fiber acts as a **distributed** thermometer featuring **thousands** of sensing points along the whole sensing link

FEATURES

A **single-element** replaces the need for multiple sensors (with their respective individual communication and power lines)

Highly **cost-efficient 24/7 simultaneous monitoring** of all valuable assets

Real-time temperature distribution mapping

Easy-to-deploy in the **most confined spaces**, ready for the **most demanding environments**

Safe for operating in explosive environments – **no sparks**

Proprietary specialty optical fiber enabling **eliminating cross-sensitivity**

Enables **damage/fire prevention, predictive maintenance** and **processes optimisation**

Historical **temperature data** for events and processes analysis

Integration with other systems and devices through standard industrial comm. protocols



SPECS*

- Temperature meas. resolution: ± 1 °C
- Spatial resolution: Down to 1 cm
 - Response time: Down to 1 s
- Fiber operating temperatures: -200°C to 700°C
- Sensing Range: up to 100 m

*Contact us for more information and/or customized parameters.



APPLICATIONS

- Early overheating & fire detection in engines, batteries, generators, and other devices.
- Temperature distribution mapping in machines for design and operation optimization.
- Structural Health Monitoring of assets for usage control and predictive maintenance.
- Industrial process temperature monitoring for performance optimization.

