



DISTRIBUTED TEMPERATURE SENSOR

PROTECT AND OPTIMIZE YOUR ASSETS 24/7



Single measuring element functioning as **distributed** thermometer featuring **thousands** of sensing points along one optical fiber

FEATURES

- Precise and accurate **temperature distribution mapping**.
- Enables **damage/fire prevention, predictive maintenance and processes optimisation**.
 - A **single-element alternative** for multiple sensors (together with communication and power lines)
- Highly **cost-efficient 24/7 simultaneous monitoring** of all and entire valuable assets.
 - Historical **temperature data in digital format** for events and processes analysis.
- Easy to install in **most confined spaces**, ready for **most demanding environments**.
 - Safe for explosive environment – **spark-free**.
 - Patented optical fiber element **eliminating cross-sensitivity**.
- Ready for integration** with other systems and devices through standard data protocols.
 - Highly customizable** for individual requirements.



SPECS*

- Threshold or linear mode of operation
- Sensing element type: range of proprietary specialty fibers
 - Measurement resolution: ± 1 °C
 - Space resolution: 1 cm
 - Response time: 1 s
- Operation temperatures: -200°C to 700°C
- Measuring distance: up to 100 m
- Fiber protective coatings: polyimide, Cu, Ag, Ni, Au

* Contact us for detailed information and/or specs adjustment.



APPLICATIONS

- Early overheating & fire detection in engines, batteries, generators and other devices
- Equipment and installations health monitoring for predictive maintenance
- Temperature distribution mapping in machines for design and operation optimization
- Industrial process temperature monitoring for performance optimization

