

Article Overview

HAWK Fiber Optics, AusOptic/VIAVI, OMEGA Engineering, FibreOptics Sensors, and Yokogawa Australia are key providers of fiber optic temperature measurement solutions in Australia.

HAWK Fiber Optics

HAWK offers the Praetorian Fiber Optic Sensing System, which provides real-time monitoring of temperature, strain, and acoustics along a single fiber cable over distances up to 80 km. Their systems are widely used in pipelines, power cables, railways, mining, and critical infrastructure. HAWK has a headquarters and manufacturing facility in Melbourne, Australia, making them a local manufacturer with global deployment experience .

AusOptic / VIAVI

AusOptic supplies VIAVI DTSS and DTS solutions, which use distributed fiber optic sensing to measure temperature and strain along the entire length of an optical fiber. These systems utilize Raman and Brillouin scattering technologies and can be deployed on battery-powered field platforms or rack-mounted systems. They are suitable for detecting hot spots, monitoring structural health, and preventive maintenance in industrial and infrastructure applications .

OMEGA Engineering

OMEGA Engineering provides a range of fiber optic temperature measurement solutions in Australia, including high-speed industrial fiber optic infrared transmitters and portable instruments like the HHTFO-101. Their systems cover temperature ranges from -100°C to 3000°C, are immune to electromagnetic interference, and are ideal for harsh or hard-to-reach environments .

FibreOptics Sensors

FibreOptics Sensors offers fiber optic temperature sensor systems consisting of a fiber optic probe and optical temperature converter. Their proprietary materials and processes ensure high accuracy and repeatability over a wide temperature range, making them suitable for environments where traditional electrical sensors are unreliable .

Yokogawa Australia

Yokogawa's DTSX200 Distributed Temperature Sensor uses the Raman scatter principle to measure



Australian Temperature Measuring Optical Cable Manufacturer

temperature along the length of an optical fiber. This system provides high-resolution, long-distance temperature monitoring and is widely used for fire detection, leak detection, and preventative maintenance in industrial plants .

Summary

For Australian-based solutions in temperature measuring optical cables, the main providers include:

- o HAWK Fiber Optics - Melbourne-based manufacturer with global deployment.
- o AusOptic / VIAVI - Distributed temperature and strain sensing solutions.
- o OMEGA Engineering - Industrial fiber optic temperature measurement instruments.
- o FibreOptics Sensors - High-accuracy fiber optic probes and converters.
- o Yokogawa Australia - DTS systems for long-distance, high-resolution monitoring. These companies offer a range of technologies, from distributed sensing to infrared fiber optic systems, suitable for industrial, infrastructure, and research applications.

Temperature sensors - to capture the temperature of anything from the inside of a concrete block to a food

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Fiber optic sensor cables are the key enabler for real-time monitoring of temperature, strain, and acoustic signals across diverse and

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