

Distributed Temperature Sensing

Designed for the Most Demanding Applications

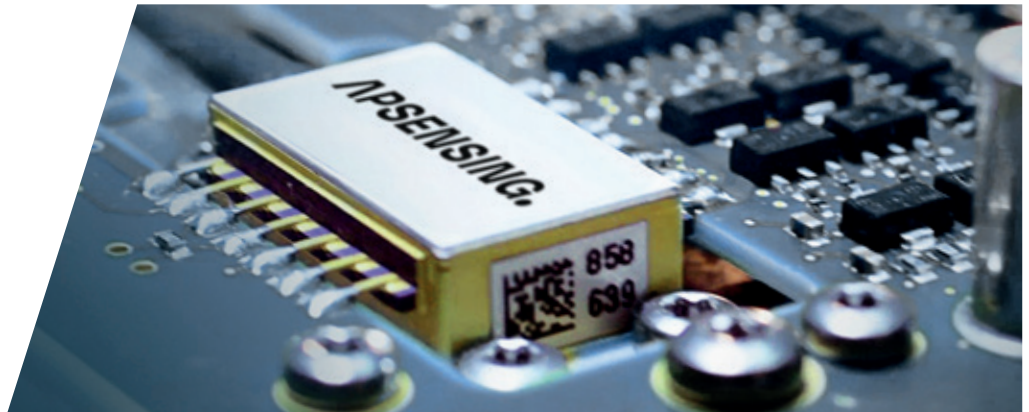


DTS N45-Series

AP Sensing's next-generation DTS provides a new level of temperature sensing and asset monitoring. Discover how customer requirements led to developing a completely new and improved DTS, which breaks the limits of time, space and accuracy.

Unrivaled Design

Our unique and patented code correlation concept results in an SNR 10 times better than traditional DTS instruments, offering unmatched performance in measurement range and accuracy.

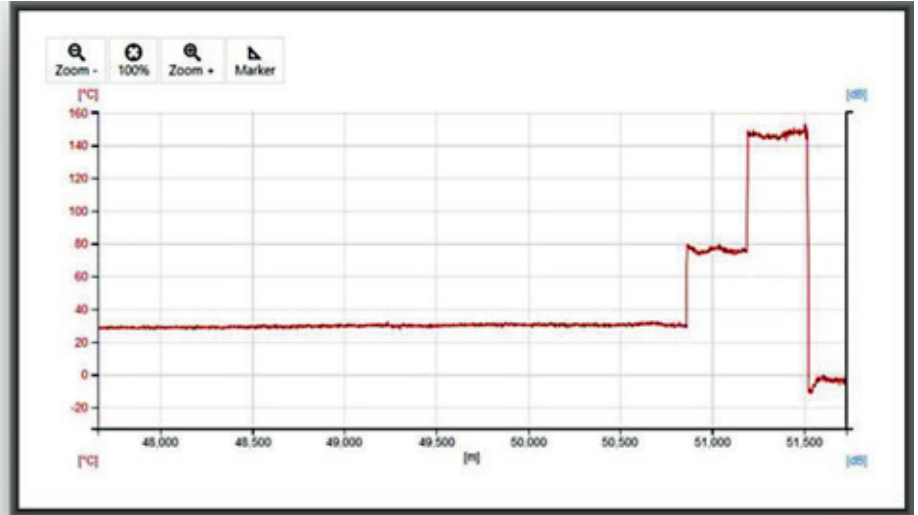


Best Performance

The overall improved new Raman DTS offers the longest measurement range, 70 km, and the best performance at shorter lengths, with a spatial resolution of 0.5 m and fast measurement time down to 1 second.

Absolute Precision

AP Sensing believes that RAMAN is the only technology that provides **absolute measurement accuracy** because it **doesn't suffer from cross-talk** of other physical parameters, such as strain.



Trust Your Instrument

Traditional DTS architectures use two, AP Sensing only **one avalanche photodiode (APD)** – single receiver concept. The new series is designed to measure unerringly offering **data you can trust**, even after years of operation or under severe conditions.

Engineered for a Long Life

40+ years of measurement expertise from HP resulted in benchmarking levels of **quality, ruggedness, and usability**. With the industry's lowest failure rate and the **most complete set of type tests and certifications**, AP Sensing is the well-known leader in quality and durability.





Maximum Usability

Easy handling was a key objective which is achieved by an intuitive web interface that guides you through the configuration. This saves valuable time when servicing the system. The new colorful display is informative and provides all important status information.

Safety is Key

With a NASA-proven real-time operating system and a sophisticated communication design, the new series can be deployed in areas where data security is crucial. It is virtually impossible to exploit the new DTS as a gateway for cyber attacks.



A Step Ahead

Stay flexible whether installed in a rack system, mounted outdoors, or integrated into a larger system, we provide the right enclosure. Our innovative VTT-Technology enables configuration flexibility to attain the best measurement output for your projects... with no trade-offs.

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Solution & Benefits

- **Improved code correlation concept** – the longest range of up to 70 km.
- **Lowest optical output power** ensures a long product lifetime and allows deployment in hazardous areas (EX zones).
- Stabilized laser, single receiver design and RAMAN technology ensure the **highest measurement accuracy with no cross-talk**.
- **Long-term measurement stability – no drift:** traditional DTS architectures use two, AP Sensing only one avalanche photodiode (APD).
- **Cyber Security:** VxWorks – the real-time operating system used in mission-critical applications, e.g. the aerospace industry.
- **Modern, easy-to-use web interface** to set up and configure the system. It is intuitive and adapts to your language preferences.
- **High-definition display** provides vital information during set up and operation.
- Industry's **most complete set of certifications** and type tests guaranteeing highest product quality.
- Designed to **operate everywhere** – from deserts to the Arctic. Available for indoor and outdoor installations.
- **A lifetime MTBF.** All instruments are “designed & made in Germany.”



Learn More About the Product:
www.apsensing.com/product/dts-n45-series



More Information:
+49 7031 309 6610
www.apsensing.com
info@apsensing.com