

5TH GENERATION DAS

AP SENSING'S 5TH GENERATION DAS SERIES

Fifth Generation. First Choice.



With 35 years of experience and thousands of systems installed for critical safety applications worldwide, the **new AP Sensing Distributed Acoustic Sensing (DAS)** system has stemmed from an improved understanding of the needs of our customers and our **unique 2P Squared technology**.

The result? A unique system architecture that not only achieves the **world's leading measurement range** for true phase-based systems without the use of amplification, but also results in **enhanced usability, reduced signal artifacts** such as fading, and **improved measurement performance**. These proven system capabilities are all encompassed within a compact and portable system design that can operate even in harsh environmental conditions.

Performance

- Measurement performance that balances detection sensitivity (Probability of Detection) and detection reliability (reduced false and nuisance alarm rate)
- AI-based detection algorithms enable rapid adaptation of the DAS system to the environment
- Application-specific extraction and processing of measurement data
- New algorithms improve the dynamic range and minimum detectable signal by more than 75 %

Reliability

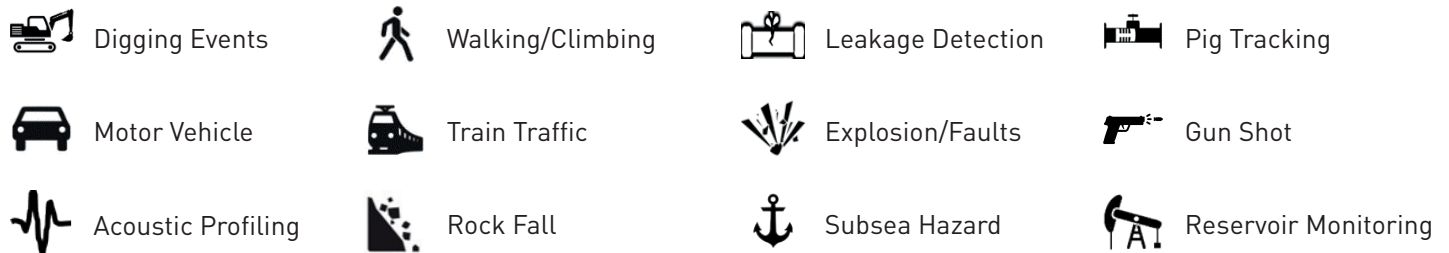
- Significantly improved product lifetime (more than doubled)
- Standard operating temperature range improved by 25 %
- Extremely low false alarm rate
- 30 % reduced power consumption, ideal for installation in remote and low voltage environments
- Intelligent self-diagnosis tool for improved troubleshooting and smooth operation
- State-of-the-art IT security standards

Ease of Use

- Intelligent commissioning features for reduced setup time
- API feature set provides the capability to develop project-specific software applications
- Lightweight and integrable design supports portability
- Various solutions for integration into third party software or custom cloud-based solutions
- Increased data storage expansion options

Find the 5th Generation DAS designed for your infrastructure

	N5125B Series	N5225B Series	N5226B Series
Power Cable Monitoring	●	●	
Pipeline Leakage Detection	●	●	
Well & Reservoir Monitoring			●
Geo- & Hydrological Monitoring			●
Perimeter Monitoring	●	●	
Railway Monitoring		●	



Why Choose AP Sensing's 5th Generation DAS?

- Revolutionary 2P Squared technology - provides a true linear measurement of strain changes generated by acoustic/vibration signals along the sensing fiber.
- Intelligent event detection: AP Sensing's proprietary deep learning algorithms precisely analyze acoustic patterns and reliably classify events.
- Outstanding signal-to-noise ratio (SNR) accompanied by a world-leading measurement range for phase-based systems without additional amplification.
- Leading performance from noise floor improvements of over 75 % and an improved pulse rate that doubles both the resolvable acoustic frequency and the distortion-free acoustic amplitude.
- Available in single and simultaneous two-channel versions with extended standard temperature performance. Features 100 km measurement range with two simultaneous channels.



WANT TO KNOW MORE?

Contact our experienced, multilingual team



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