APSENSING.

Fifth Generation. First Choice.

Designed for the Most Demanding Applications



DAS N51/N52-Series

With 40+ years of experience and thousands of systems installed for critical safety applications worldwide, the **AP Sensing Distributed Acoustic Sensing (DAS)** system has stemmed from an improved understanding of our customers' needs 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)
- Al-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%



- 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

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	N5125B-Se	N5125B-Series			N5226B-Series
Power cable monitoring	~		~		
Pipeline leakage detection	~		~		
Well & reservoir monitoring					 Image: A second s
Geo- & hydrological monitoring					\checkmark
Perimeter monitoring	\checkmark		\checkmark		
Railway monitoring			 Image: A second s		
Digging events 🚯 V	Valking/climbing		Leakage detection	A	PIG tracking
Motor vehicle	rain traffic		Explosion/faults		Gunshot
Acoustic profiling	Rockfall		Subsea hazard	A	Reservoir 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 phasebased 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 a 100 km measurement range with two simultaneous channels.



Learn More About the Product: www.apsensing.com/product/das-n51/n52-series

