



AFU



DFU



DFU 3C

WiNG range

WiNG RANGE

WiNG is a fully integrated nodal land acquisition system designed with a single data collection platform to manage operations more easily and efficiently. This field-proven nodal solution integrates Sercel's best performing and most sensitive broadband sensor ever, QuietSeis®, to acquire high-precision seismic data.

The WiNG range includes three types of nodes:

- **AFU**: Analog node, designed for use with geophone strings.
- **DFU**: A single-component node designed to minimize transportation and storage costs.
- **DFU 3C**: Sercel's latest node in this range, a three-component version tailored to meet all your challenges.



WiNG AFU



WiNG DFU



WiNG DFU 3C

SYSTEM CERTIFIED DATA

Certified data is defined as data that has been subjected to a structured quality process such that it meets or exceeds the standards established by its intended consumers.

Monitoring Software or Operation Monitoring Environment

At the heart of Sercel's new nodal system is the DCM—Data Completion Manager, which includes a single, integrated environment from which all the operational aspects of the survey can be monitored. Unique to nodal systems, this platform collects QC information from both sources and receivers giving the observer in the field a single integrated tool with which to monitor all factors contributing to data quality.



Remote QC Monitoring

The field proven Pathfinder technology allows continuous remote monitoring of spread conditions during operations, either on the line via tablet PC or at the recorder. This real time QC reporting even allows the operator to be alerted to the presence of external noise sources that have a detrimental effect to the quality of the acquired data.

Data Quality Control

No need to wait until the end of the survey to properly assess the quality of the seismic data. Portable field terminals wirelessly connect to and harvest data from the nodes (without interrupting production) and allow sample SEG-D files to be quickly produced for thorough data quality analysis.



Pathfinder Technology



DFU 3C, TAILORED TO YOUR EVERY CHALLENGE

3C acquisition has a strong track record in complex geologies for energy exploration. It helps analyze fractures and rock properties, understand fault mechanics, improve material identification, accurately reconstruct the P-wavefield, enable imaging through gas chimneys, and provide additional seismic attributes. 3C acquisition is the enabler for micro-seismic acquisition.

For these types of surveys, the WiNG DFU 3C is the receiver of choice over analog tri-phones. Integrated QuietSeis MEMS technology delivers the most compact and lightweight 3C node on the market, with best-in-class data thanks to its excellent vector fidelity and low-frequency sensitivity.

The WiNG DFU 3C, like our offshore nodal field-proven solution, GPR, is a game-changer for imaging complex geologies.



WiNG DFU 3C

Key benefits of WiNG DFU 3C

- **Compact & Lightweight:**
2 times lighter and smaller than the competition, simplifying field operations.
- **QuietSeis MEMS Sensors:**
Deliver high accuracy, quality, and reliability with excellent vector fidelity, sensor stability, and low-frequency performance.
- **QC Pathfinder:**
Ensures seamless quality control.
- **Worldwide Repair Services:**
Offering support no matter where you are.
- **Comprehensive Support:**
Services available at every stage of the project lifecycle.
- **Environmentally Friendly Design:**
Designed with sustainability in mind.

Main applications

- Oil & Gas
- Carbon Capture and Storage (CCS) for both exploration and monitoring
- Geothermal for both exploration and monitoring
- Mining for both active and passive exploration
- H2 and He exploration
- Geotechnical monitoring
- Seismology (earthquake, volcano)



HIGH PRECISION IMAGERY

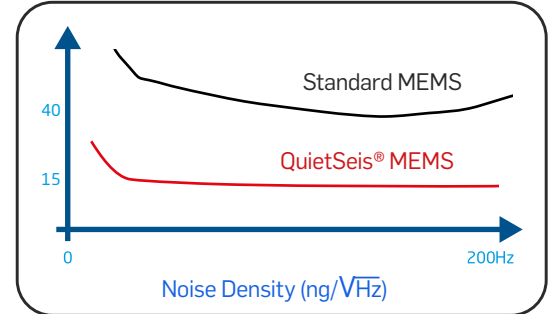
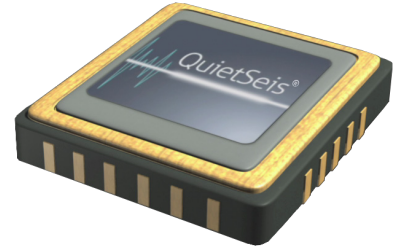
Digital Fidelity

The DFU is equipped with Sercel's field proven QuietSeis broadband sensor that outputs a digital signal which provides a much higher fidelity representation of ground motion than that provided by analog geophones. It has a flat amplitude and phase response across the seismic bandwidth in addition to much lower amplitude distortion in contrast with analog sensors.

Low Noise - Low Frequency

Sercel's QuietSeis MEMS sensors have a reduced noise floor in the low frequencies right down to 0.1Hz making them the ideal sensor for broadband operations.

Across the frequencies of interest to the seismic industry the product's noise specification of 15 ng/√Hz is at or below the quietest ambient noise measurable anywhere on Earth.



IMPROVED OPERATIONAL EFFICIENCY

Our WiNG solution is designed to enhance operational efficiency through the following key features:

Pathfinder

Monitor the status of nodes in the field in real-time.

Auto-Assignment

Minimize the risk of assignment errors.
Start shooting immediately after deployment.
Provides a comprehensive node inventory.

Data Quality Control

Direct connection ensures seamless data transfer.
Data harvesting capability up to 50m for multiple shots.
Test results and quality control are integrated for enhanced accuracy.



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