

Argeo LISTEN

Efficient inspection of subsea cathodic protection systems, positioning of buried power cables and mineral exploration

Argeo Listen is a passive electrode- and magnetometer system for electric- and magnetic field measurements in sea water. The system is modular and can be implemented into various underwater vehicles. Currently the system is fully integrated on Argeo's AUV platforms which can operate down to 6000m water depth. Argeo Listen is perfect for inspection of subsea cathodic protection systems, positioning of buried power cables and marine mineral exploration.



UP TO 150 km

Of high productivity inspection

3-3,5 knots

Survey speed

NEAR REAL-TIME

Data analysis during field operations

Save time on inspection with shorter time to high quality results

- ✓ Efficient inspection of cables and pipelines, both buried and on seafloor
- ✓ Rapid estimation of cathodic protection status and remaining lifetime
- ✓ Simultaneous data acquisition with other sensors
- ✓ Complete characterisation through integration of all sensor data
- ✓ Faster project turnaround providing safer operations with lower HSE risk
- ✓ Accurate and high-quality data with low noise levels
- ✓ The system is modular and can be installed on a variety of underwater platforms

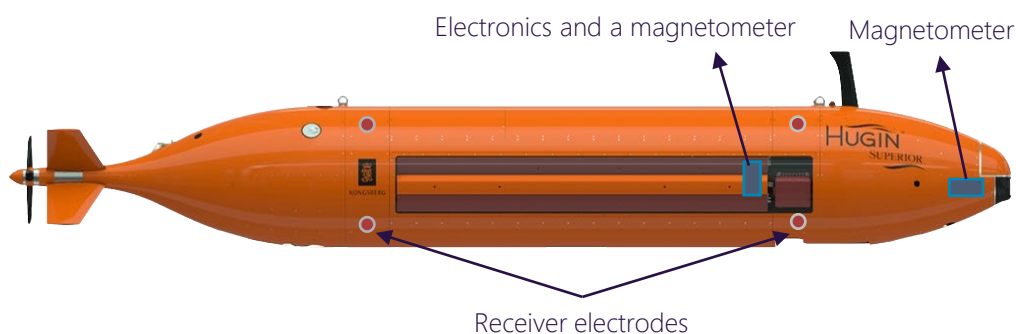
Technical specifications

Electric current source

- Frequency range < 200 Hz
- Dynamic range: 10⁻⁸ – 100 V
- Noise/Sensitivity: 0.1*10⁻⁶ V/m
- Depth rating: 6000 m

Magnetometers

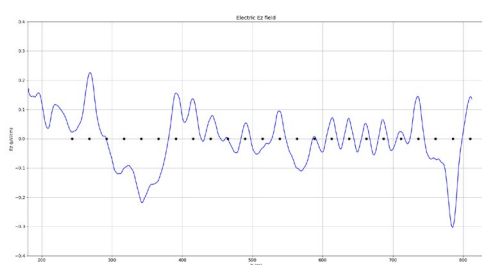
- Frequency range < 200 Hz
- Dynamic range: ±65000 nT
- Noise/Sensitivity: ± 0.5 nT
- Depth rating: 6000 m



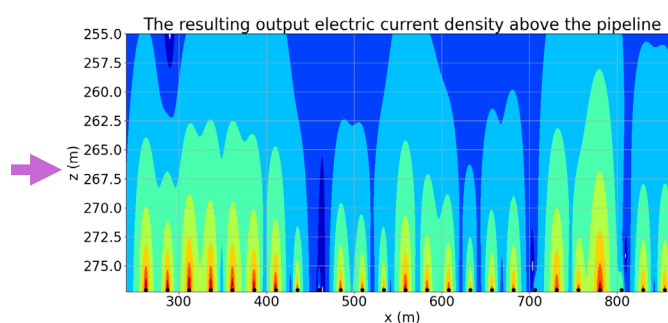
EXAMPLE

Cathodic protection measurements and analysis

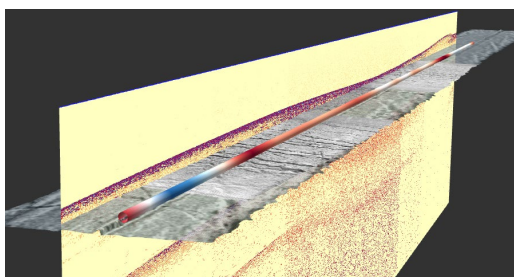
MEASURED DATA



PROCESSED DATA



INTEGRATED DATA



Visualization of the cathodic protection field draped onto the pipeline, in Argeo SCOPE digital platform.

This information is used to determine the status of the Cathodic protection system