

Case Study:

Zupt, Subsea Template Positioning with Impact Subsea's ISD4000 Depth & Temp Sensor and ISA500 Altimeter



FEATURES & BENEFITS

- > **±0.01% FS DEPTH**
Optional 0.005% FS*
Survey Grade Depth Accuracy.
- > **±0.1°C ACCURACY**
Optional 0.05°C*
Survey Grade Temperature Sensor.
- > **INTEGRATED AHRS***
Provides Magnetic Heading to ±1°
Pitch and Roll to 0.2° accuracy.
- > **MAINTENANCE FREE**
Non-block pressure port.
- > **TITANIUM OR ACETAL HOUSING**
Robust and long lasting.
- > **EMULATE ANY DEVICE**
Direct replacement of existing
equipment.



*Optional

Before:

Zupt needed reliable depth and altitude data for critical subsea operations. They needed precise control for complex tasks like subsea template positioning and subsea jumper/spool metrology.

They required robust sensor solutions capable of precise measurements in challenging underwater environments.

After:

With the Impact Subsea ISD4000 depth sensors Zupt gained precise pressure measurements for accurate depth monitoring and precision underwater distance measurements with the ISA500 Altimeter.

Zupt has been contracted to provide the sensor suite and service to monitor a 30m+ subsea template that is used to install large diameter monopile foundations into the seabed.

APPLICATIONS INCLUDE:

Pipeline Surveys | Real Time Depth | Motion Reference | Asset Deployment |
Echosounder Surveys | ROV & AUV Depth Sensor | Temperature Measurement |

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ISA500 Altimeter mounted onto Subsea Template

Subsea Template Positioning:

The template is on hydraulically extendable legs therefore the main body of the template has a variable altitude with respect to the seabed.

The depth sensors and altimeters are being used to monitor the depth and altitude of the template.

“We’re very satisfied with the quality of Impact Subsea sensors, they’ve never let us down.”

Aidan Thirsk,
Vice President, Commercial,
Zupt LLC.

