RISER MONITORING SYSTEM (RMS)

Aquaterra Energy (AE) has developed a unique monitoring and analysis system designed to revolutionise the riser integrity management process.

> **Enhanced Health & Safety**
As environmental and technical obstacles to deliver projects become even more challenging, the RMS provides accurate asset information to enable improved decision making on maintenance activities, reducing the likelihood of accidents or unplanned incidents.

> **Asset Life Extension**
The system hardware has been developed to deliver superior reliability and accuracy to alternative data acquisition methods. Combined with a unique and robust analysis methodology, it facilitates the opportunity to safely extend asset life. Thus increasing profitability and minimising project risk at the same time.

> **Cost Saving**
As well as reducing the risk of catastrophic failure and providing opportunity to extend asset life, the AE RMS can further reduce costs by providing real time information on operating limits, allowing safe extension of operating windows based on measured riser strain.

> **Peace of Mind**
The integrated monitoring and analysis methodology has been meticulously designed, tested and verified to ensure critical accuracy and maximum reliability. There is no longer a need to be concerned with missing, conflicting or superfluous data or multiple subcontractors dealing with monitoring and analysis separately with no clear overall responsibility for the accuracy of the deliverable asset management information.

more detail overleaf >
RMS HARDWARE FEATURES

1. Strain measurement
   Four robust gauges, specifically designed for subsea use, ensure the data fidelity of direct strain measurements of the riser, rather than the flex of a clamp.

2. Epoxy Resin
   Specially developed subsea epoxy resin attaches the critical components to the riser enabling enhanced accuracy of direct strain measurement whilst negating damaging fatigue hot spots caused by welding.

3. Data Logger
   Records all pertinent information at a rate of 10Hz, with capacity to store up to 560 days of continuous data in its 32Gb memory card.

4. Data Transfer
   Options for local storage or instant transmission to surface via the RS422/485 connection interface for live evaluation, processing and reporting. Connector plug provides pre deployment visual indicator of operational status.

5. Battery Pack
   A single module powers the unit for in excess of 250 days with an option to include additional packs allowing up to 5 years logging duration without intervention.

6. Housing
   Heavy duty design to provide maximum impact protection whilst minimising hang up loads during deployment and recovery. Pre-installation onto a riser joint virtually eliminates operational impact.

**Contact Us for More Information**

We’d love to talk to you about the advantages of this system. Please contact us using the details below:

* e sales@aquaterraenergy.com  t 01603 788 233
* www.aquaterraenergy.com

"Fusion of high-fidelity raw data with unparalleled in-house analysis expertise..."