

RiserMonit[®] system

Advanced riser integrity monitoring systems



Sensorlink has years of experience applying different technologies for monitoring pipes and steel structures. RiserMonit is a tailored range of products and concepts for advanced riser integrity monitoring.

The RiserMonit systems are primarily based on ultrasound or electromagnetic sensing technologies. The products and concepts are developed through customized projects. Sensorlink develops solutions in close collaboration with our customers according to their immediate needs.

RISERMONIT CARCASS DETECTOR

The RiserMonit Carcass Detector is designed to detect a potential failure mode in flexible risers where the

carcass may be overloaded close to the end termination. Currently the tool is installed on the Snorre B platform in the North Sea. The detector is among the world's first tools to be installed inside a producing riser. It was developed in close collaboration with Statoil during 2011. The RiserMonit Carcass Detector applies the Sensorlink ultrasound technology to detect the possible carcass failure applying an internally mounted UT reflector. The RiserMonit Carcass Detector holds Ex certificate for Zone 2 (Zone 1 is under certification). The carcass position status is communicated to the control system and to local indication panels.

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RISERMONIT VIBRATION MONITOR

This product is used to ensure that vibration levels on offshore installations are kept within safe operating limits. Real-time vibration information is automatically transmitted by the RiserMonit monitor to the main data acquisition system onshore.

Currently the monitor is installed on the Gjøa platform in the North Sea to measure vibration levels at selected locations on the export riser base. The sensors are installed on steelwork on the ERB, and are connected to the data acquisition system by electric jumper cables. The RiserMonit Vibration Monitor is developed in close collaboration with GdF Suez.

RISERMONIT MOTION MONITOR

This is a concept based on the technology from PipeMonit and the inclination sensor used there. The autonomous belts from Sensorlink can be used for measuring the inclination and motion of any object, including risers and derricks. The RiserMonit Motion Monitor is delivered as customized project and the form factor is adapted to the customer's needs.



RISERMONIT IMAGER

This concept is based on imaging the internal topography of risers by using advanced sensing technology. The tool is especially advantageous as it is light and compact. It will be used as an inspection pig or an umbilical based tool.

The RiserMonit Imager is based on ultrasound and electromagnetic technologies and advanced signal processing. It is designed so that the data are visualized as topographical maps making it easy for integrity engineers to evaluate the condition of the riser.

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