

CORMON EXTENDS RPCM™ CAPABILITY

RING PAIR CORROSION MONITOR DEVELOPED FOR DEEPWATER, HIGH PRESSURE AND HIGH TEMPERATURE APPLICATIONS

The Cormon RPCM™ pipeline corrosion monitor has been the subject of intensive development and reliability engineering work to evolve a fully qualified HP/HT design for deepwater applications. The work was in response to a growing demand for on-line optimisation tools on projects in deepwater locations like the Gulf of Mexico and West Africa.

The mechanical package has been configured for 1000 bar (14500 psi) operation up to 180°C (356°F) in 3000m (9843 ft) of water. The piggable device can be butt welded into line and is capable of lay barge installation.

In addition to a wider operating envelope, the RPCM™ spool now has dual redundant higher resolution electronics to make measurements on the 360° circumferential ring pairs, further extending the performance. The opportunity to select ring pairs according to the monitoring need is retained: with fast response pairs for CI management and weldment pairs for monitoring preferential weld corrosion being popular options. Cormon have now added configurations to differentiate pitting attack from general corrosion.

RPCM™, which makes use of Cormon's CEION® technology, also provides 360° temperature measurement profile from all ring pairs in 8 virtual sectors. When allied with the option for embedded pressure sensors, it can be seen that RPCM™ has evolved exceptional capability as a flow assurance and optimisation tool.

The communication system has also received further development. A versatile long distance communications package for direct or SCM connection has been implemented in an ROV compatible pod. Data output is in engineering units.

During 2004/5 Cormon delivered a total of 6 RPCM™ units to Apache (John Brookes), Statoil (Snøwhit) and Woodside (Otway) and achieved 100% on-time delivery.

