

Small-form Subsea Positioning Transponders



Kongsberg Maritime is introducing a range of mini medium frequency subsea transponders. With a smaller form factor, improved operational functionality and design and the use of modern materials the cNODE MiniS family supersedes the KONGSBERG Mini SSBL transponders (MST) range, which was first available in 2002.

Expanding the well-established cNODE portfolio, the cNODE MiniS 34-180 and cNODE MiniS 34-40V are the smallest transponders for use with HiPAP, cPAP and μ PAP underwater positioning systems, and are ideal for accurate Remotely Operated Vehicle (ROV) positioning operations. Both new cNODE MiniS transponders are depth rated to 4,000m and offer a diverse range of applications.

cNODE MiniS 34-180 and cNODE MiniS 34-40V operate on HiPAP/HPR 400 channels with over 500 Cymbal channels. The Cymbal protocol transmits more energy into the water, which together with uniqueness coding, new filtering and processing techniques, offers a number of benefits including better angular accuracy, improved range specification, higher position update and telemetry rate and longer endurance between battery charges.

Compatible with SSBL and LBL positioning configurations, other technical features of the new cNODE MiniS family that help to make it one of the most advanced range of underwater transponders available today include an internal rechargeable Li-Ion battery that can be charged from empty to 100% in under an hour and the ability to charge from a ROV's on board 24v supply. Also included is an advanced internal tilt sensor working up to $\pm 90^\circ$, which can alert operators should the transponder lose optimal positioning on the sea-bed.

According to Morten Berntsen, Sales Director Subsea Kongsberg Maritime, the new cNODE MiniS transponders are developed to give operators improved position data over previous generation small form transponders and we look forward to industry acceptance for their accuracy, reliability and enhanced functionality.