

cNODE® Transponders

Maxi, Midi and Mini



cNODE® is a family of transponders for underwater acoustic positioning and data link. The transponders operate together with both HiPAP®, HPR and cPAP® transceivers. cNODE® utilises Cymbal® acoustic protocol and is compatible with the HiPAP®/HPR 400 channels and telemetry. cNODE® is designed to cover a large range of applications and this is made possible by the modular design and a variety of different transducers, internal and external sensors, housing materials and other add-on functions.

cNODE® is easy to set-up, operate and maintain. Both new configuration and software can be downloaded from TTC 30 without opening the transponders. The floating collar and release design make the launch/recovery operation safe and easy. Spare parts for cNODE® are based on the main modules.

The cNODE® transponder family consists of the models Maxi, Midi and Mini.

Specifications

Product	cNODE® Transponders Maxi, Midi and Mini
Country of origin	Norge
Manufacturer	Kongsberg Discovery

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Featuring

- Cymbal channels (500+)
- Acoustic telemetry for battery status and tilt sensor
- Responder and transponder functionalities
- SSBL and LBL positioning
- Range measurements between transponders
- 600 metre depth rated
- 180° omnidirectional beam
- Internal tilt sensor ± 90°
- Coated Anodised aluminium housing
- Internal rechargeable Li-Ion battery
- External on/off function
- Pressure relief valve (safety device)
- Frequency band 21-31 kHz
- Operating temperature -5 °C to +55 °C
- External connector for configuration, software update and charging

Technical specifications

Km item number	424770
Dimensions (length x diameter)	245 x 55 mm
Weight in air/water	1 kg / 0.4 kg
Depth range	600 m
Beam width	180°
Source level - max	170 dB
Trigger level	< 85 dB

Operating battery lifetime

QUIESCENT BATTERY LIFETIME	< 10 days
CYMBAL® (Low power, 1 sec update rate)	< 48 hours

Other specifications

Responder trigger signal	5V to 25V positive logic pulse (2ms - 6ms)
External connector	Seacon MC-IL-8-F (cNODE MiniS compatible)
Battery charger input voltage	110/230 VAC