cNODE® Modem MiniS

The cNODE Modem MiniS is designed for the Point 2 Point transfer of data between two cNODE's or to a surface vessel equipped with any HiPAP® and µPAP® systems. The data telemetry operates on CYMBAL digital protocols, Kongsberg field proven robust proprietary link.

One cNODE Modem MiniS can address several other cNODE Modems during operation using the Kongsberg Link User Protocol. The data telemetry operates on CYMBAL, Kongsberg's field proven and robust proprietary link. Data rates of up to 6 kb/s are available. The cNODE Modem MiniS is simple to configure with the TTC Light software.

Specifications

Product	cNODE Modem MiniS
Country of origin	Norge
Manufacturer	Kongsberg Discovery
Material	Coated anodized aluminium

Featuring

- Transparent Modem function
- High speed telemetry capabilities
- Modem interface: RS-232/485/422
- Cymbal channels (560+)
- SSBL and LBL positioning
- Range measurements between transponders
- 4000 metre depth rated
- 34-180 has 180° omnidirectional beam
- 34-40V has 40° narrow beam
- External Power; 24 VDC (20 - 28V), 1A / 24 W maximum

- 34-40V has 40° narrow beam
- Coated anodised aluminium housing
- Internal rechargeable Li-Ion battery
- External on/off function
- Internal tilt sensor ± 90°
- Pressure relief valve (safety device)
- Operating temperature -5 °C to +55 °C
- Frequency band 21-31 kHz
- External connector for configuration and software update Transmitting power; High, Low, Min (6 dB steps)

Technical specification

Model	cNODE® Modem MiniS 34-180	cNODE® Modem MiniS 34-40V
Km item number	425260	417930
Dimensions (Length X Diameter)	306 x 105 mm	321 x 105 mm
Weight in air / water	4 kg / 2.1kg	4.6 kg / 2.1 kg
Max. Depth rating	4000 m	4000 m
Typical range capability	1000 m	4000 m
Beam width	180°	40° vertical
Source level - high	182 dB	197 dB
Trigger level	< 85 dB	< 80 dB

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Modem

Frequency band	21 - 31 kHz
Acoustic speed, cymbal	Up to 6,0 kbit/s, selectable for adaption to acoustic channel conditions
Data interface	RS-232, RS-485 or RS-422 (isolated / non-isolated)
Configuration software	TTC Light software
Active control during operation	Kongsberg Link User Protocol

Power

Internal battery	Lithium-Ion, Quiescent battery lifetime 30 days
External power	24 VDC (20 - 28 V), 1A / 24 W (Charging during operation)
Transmitting power (max)	100 W
Standby power	<100 mW
External connectors	Seacon

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