



KONGSBERG

cNODE[®] Modem MiniS



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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 μ PAP[®] 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.

The cNODE housing rated for 4000 m is manufactured in coated anodized aluminium. Transducer options include a 180 degrees omni directional and 40 degrees vertical transducer to ensure the link can be optimized based on water depth and environment.

FEATURES

- 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
- Coated anodised aluminium housing
- Internal rechargeable Li-Ion battery
- Battery charger: 0-100 % in one hour
- External Power; 24 VDC (20 - 28V), 1A / 24 W maximum
- External connector for configuration and software update
- Transmitting power; High, Low, Min (6 dB steps)
- External on/off function
- Internal tilt sensor $\pm 90^\circ$
- Pressure relief valve (safety device)
- Frequency band 21-31 kHz
- Operating temperature -5 °C to +55 °C

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 |

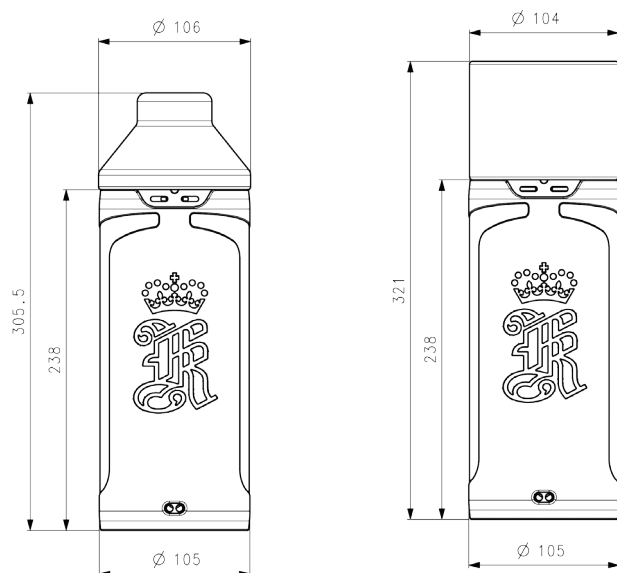
MODEM

| | |
|---------------------------------|--|
| 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 |

Outline drawings for the
cNODE® Modem MiniS



Specifications subject to change without any further notice.