

cNODE[®] MiniS



KONGSBERG



cNODE MiniS 34-180, cNODE MiniS 34-40V and cNODE MiniS 37-40V

Kongsberg Maritime's cNODE MiniS Transponder, the most advanced HiPAP mini SSBL and LBL transponder developed to date. cNODE MiniS, with an impressive range of features, 500+ Cymbal digital acoustic channels and backwards compatibility, supersedes the Mini MST. The cNODE MiniS transponders are ideal for positioning WROVs and can be interfaced to a responder trigger and powered by ROV's 24 V supply for longer dive time.

Some common features of the cNODE[®] MiniS family include:

- Cymbal channels (500+)
- HiPAP/HPR 400 channels
- Responder and transponder functionalities
- Telemetry capabilities
- SSBL positioning
- LBL positioning
- Range measurements between transponders
- 4000 and 7000 metre depth rating
- 34-180 has 180° omnidirectional beam
- 34-40V has 40° vertical cone beam
- 37-40V has 40° vertical cone beam
- 4000 m version: Coated anodised aluminium housing
- 7000 m version: Coated titan housing
- Internal rechargeable Li-Ion battery
- Battery charger: 0-100% in one hour
- Takes charge from ROVs 24 V
- External Power; 24 VDC (20 - 28 V), 1 A, 24 W
- External connector for configuration and software update
- Transmitting power; Max, 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 $+55^\circ\text{C}$.

TECHNICAL SPECIFICATION

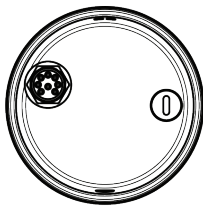
MODEL	cNODE MiniS 34-180	cNODE MiniS 34-40V	cNODE MiniS 37-40V
KM ITEM NUMBER	396588	396590	438678
DIMENSIONS (Length X Diameter)	305.5 x 106 mm	321 x 105 mm	321 x 105 mm
WEIGHT IN AIR / WATER	4 kg / 2.1 kg	4.6 kg / 2.1 kg	6.5 kg / 4 kg
DEPTH RATING	4000 m	4000 m	7000 m
RANGE CAPABILITY	1000 m	5000 m	5000 m
BEAM WIDTH	180°	40° vertical	40° vertical
SOURCE LEVEL - MAX	188 dB	203 dB	203 dB
TRIGGER LEVEL	< 85 dB	< 80 dB	< 80 dB

OPERATING BATTERY LIFETIME

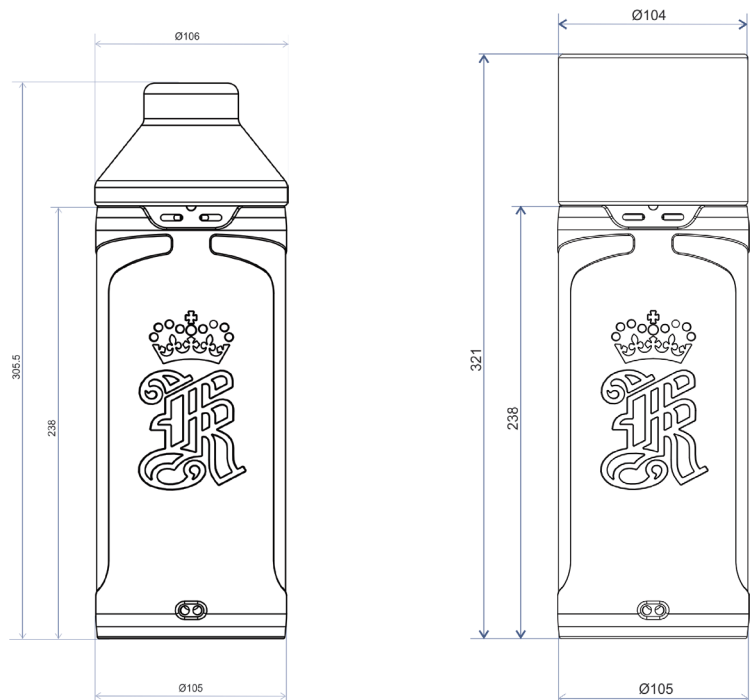
QUIESCENT BATTERY LIFETIME	30 days
CYMBAL® (Low power, 1 sec update rate)	> 2.5 days
CYMBAL® (Low power, 3 sec update rate - power save mode)	> 7 days
FSK (High power, 3 sec update rate)	> 4.5 days

OTHER SPECIFICATIONS

RESPONDER TRIGGER SIGNAL	5 V to 25 V positive logic pulse (2 ms - 6 ms)
EXTERNAL CONNECTOR	Seacon MCBH8MDO
PIGTAIL CABLE	Seacon MC-IL-8-F (length 60 cm)
BATTERY CHARGER KM ITEM NUMBER	404199
BATTERY CHARGER INPUT VOLTAGE	110/230 VAC



Outline drawings for the cNODE MiniS transponders



Specifications subject to change without any further notice.

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