

KONGSBERG cNODE MINIS TRANSPONDER

cNODE MINIS 34 - 180
SUBSEA TRANSPONDER
KONGSBERG



Description

Kongsberg Maritimes cNODE MiniS transponders, are one of the most advanced HiPAP mini SSBL and LBL transponders in the market today.

The cNODE MiniS covers an impressive range of features, as well as 500+ Cymbal digital acoustic channels. The cNODE MiniS transponders are easy to utilize together with HiPAP, cPAP and μ PAP systems in underwater positioning and are ideal for positioning of ROVs. The MiniS also operate with data telemetry, for example checking battery status, transmitting power level and measuring LBL baselines.

Features

- ▣ Cymbal Channels (500+)
- ▣ HiPAP/HPR 400 channels
- ▣ Responder and transponder functionalities
- ▣ Telemetry capabilities
- ▣ SSBL positioning
- ▣ LBL positioning
- ▣ Range measurement between transponders
- ▣ 180° omnidirectional beam
- ▣ 4000m depth rated
- ▣ Internal re-chargeable Li-Ion battery
- ▣ Take charge from ROVs 24V
- ▣ Pressure relief valve
- ▣ Internal tilt sensor $\pm 90^\circ$

SPECIFICATIONS

cNODE MINIS 34 – 180 TRANSPONDER

General Technical Specifications

| | |
|---------------------------|----------------------------------|
| Type | cNODE MiniS 34 – 180 Transponder |
| Part Number | TRAN-CM-xx |
| Dimensions L x D | 305,5 mm x Ø106 mm |
| Weight in air / submerged | 4,3 kg / 2,1 kg |
| Depth Rating | 4000 MSW |

Transponder Information

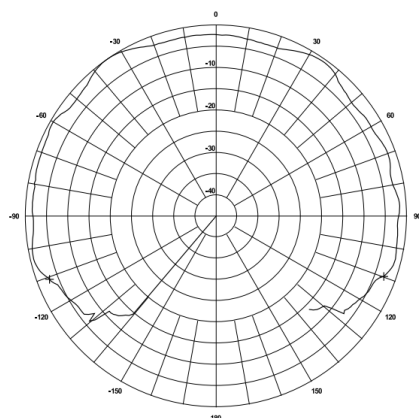
| | |
|--------------------------------|---------------|
| Beam Coverage | 180° vertical |
| Maximum source level (re 1µPa) | 188 dB |
| Trigger Level | <85 dB |
| Range Capability* | 3000+ m |

*) Range capability is depending on line of sight, transponder's transmit power setting, vessel's acoustic system of ambient noise and ray bending

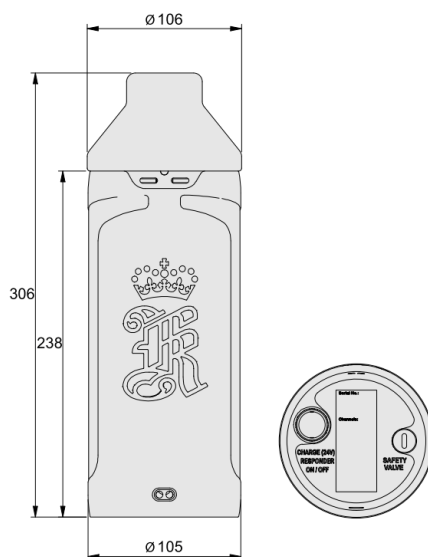
Technical Data cNODE MiniS

| | |
|---------------------------|-------------------------|
| Frequency | 20-30 kHz |
| Signal Type | Cymbal wideband and FSK |
| Responder and Beacon Mode | Yes |
| Range Accuracy | Better than 0,02 m |
| External Power Supply | 24 VDC / 1 A |
| Subsea Connector | Seacon MCBH8M |
| Housing | Aluminium |

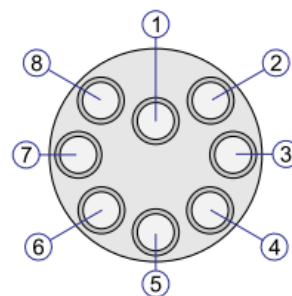
Transducer Beam Pattern



Outline Dimension



Subsea Connector



- 1 –
- 2 –
- 3 –
- 4 – Responder Trigger +
- 5 – Responder Trigger -
- 6 – On/Off
- 7 – External Power (24 VDC)
- 8 - Ground