

cNODE® Transponders



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

Kongsberg Maritime's cNODE MiniS Transponder, the most advanced HiPAP mini SSBL and LBL transponder developed to date. cNODE MiniS has an impressive range of features, including 560+ Cymbal digital acoustic channels.

The transponder is available with pressure rating of 4000m and 7000m and different transducer options, including remote transducers. Models with high accuracy strain-gauge pressure sensors are available.

The cNODE MiniS transponders are ideal for positioning WROVs or towfish and can be interfaced to a responder trigger and powered by ROV's or towfish 24V supply for longer dive time.

All models contain a built-in tilt sensor.

FEATURES

- 560+ Cymbal wideband codes
- Backwards compatible with HiPAP B-channels (FSK)
- SSBL and LBL positioning modes
- Supports Fast-track mode for higher update rate
- Telemetry for power settings and channel change
- Responder mode
- Model with remote transducer
- Optional strain gauge pressure sensor available (high accuracy 0.05% F.S.)

TECHNICAL SPECIFICATIONS

External power supply	24V (20-28V)	Quiescent battery life	30 days
Connector	Seacon MCBH8M	Cymbal, Low power, 1 sec rate	>2.5 days*
Peak power draw	1A	Cymbal, Low power, 3 sec rate	>7 days*
Range accuracy	2cm	(power save mode)	
Internal battery type	Li-Fe	FSK, High power, 3 sec rate	>4.5 days*
Operating temp.	-5°C to +55°C		





*) Battery life is about 35% if the transponder replies with sensor data





cNODE MiniS Model	34-180	34-40V	34-S (split)	37-40V
Item number	396588	396590	414030	438678
Depth rating	4000m	4000m	4000m	7000m
Housing	Aluminium	Aluminium	Aluminium	Titanium
Typical range capability	1000m	5000m	TD dependent	5000m
Source level	188 dB	203 dB	TD dependent	203 dB
Beam width	180° omni	40° vertical	TD dependent	40° vertical
Dimensions (L x Dia)	305.5 x 106 mm	321 x 105 mm	277.5 x 105 mm	321 x 105 mm
Weight in air/water	4.0 kg / 2.1 kg	4.6 kg / 2.1 kg	4.1 kg / 2.1 kg	6.5 kg / 4.0 kg




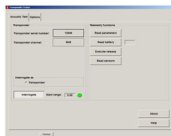
	Model with 1000m rated sensor *)		Model with 4000m rated sensor	
cNODE MiniS	31-180 P	443380	34-180 P	443399
cNODE MiniS	31-40V P	443391	34-40V P	443303

*) Depth rating of the transponder is reduced to 1000m because of the pressure sensor

ACCESSORIES

Remote transducers for cNODE 34-S	TDR30H	TDR40V	TDR180	6m cable for remote TD
Beam angle	30° horizontal	40° vertical	180°	-
Item number	345773	349743	349742	345772
Size (L x Dia)	213 x 77 mm	161 x 100 mm	160 x 88 mm	-
Weight in air/water	1.5 kg / 0.8 kg	2.3 kg / 1.3 kg	1.7 kg / 1.0 kg	-
				

Item	MiniS battery charger	Floating collar 4000m rated	Transducer guard	Transit case for 2x MiniS
Item number	404199	442750	439442	436669
				

Item	Responder/power pigtail (Seaconn)	On/off dummy plug	TTC30 Transponder tester	TTC Light Transponder tester SW
Item number	408094	402460	345775	418050
				

Specifications subject to change without any further notice.

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