

cNODE® MiniS 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.

Specifications

Product	cNODE® Transponders
Country of origin	Norge
Manufacturer	Kongsberg Discovery

Featuring

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

Technical specifications

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

Technical specifications

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	Aluminium
Typical range capability	1000m	5000m	TD dependent	5000m
Source level	188 dB	203 dB	TD dependent	203 dB
Beam width	180° omni	5000m	TD dependent	5000m
Dimensions (L x Dia)	305.5 x 106 mm	Aluminium	Aluminium	Aluminium
Weight in air/water	4.0 kg / 2.1 kg	4.6 kg / 2.1 kg	TD 4.1 kg/ 2.1 kg	6.5 kg / 4.0 kg

Technical specifications

	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

Accessories

TDR 30H



TDR 40V



TDR 180



Transducer cable (6m)



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	-

MiniS battery charger



Floating collar



Transducer guard



Transit case for 2x MiniS



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

Responder/ power pigtail



On/off dummy plug



TTC30 Transponder tester



TTC Light Transponder tester SW



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