

cNODE[®] Modem Explorer



KONGSBERG



cNODE[®] Modem Explorer

cNODE[®] Modem Explorer is designed for integration onto AUVs, ROVs or other vehicles where space and weight are restricted. The cNODE electronics can be supplied in a pressure rated underwater housing or in compact lightweight non pressure rated housing for full third party integration.

cNODE[®] Modem Explorer is a compact transponder and modem fully compatible with HiPAP[®], cPAP[®] and μ PAP[®] underwater positioning systems. Both Low Frequency and Medium Frequency models are available.

cNODE[®] Modem Explorer may be connected with up to three remote transducers. The transducers may be selected and switched electronically by the subsea vehicle control system or acoustically, to optimize for example vertical or horizontal telemetry and positioning performance.

The unit will operate as any standard cNODE[®] offering telemetry, SSBL and long baseline positioning modes.

cNODE[®] Modem Explorer interfaces to the subsea vehicle via a serial interface to transfer modem data. The transparent modem capability allows commands and data to be transmitted to and from the subsea vehicle from the customers topside control system, via the vessels HiPAP[®] system.

The modem use Cymbal acoustic protocol.

FEATURES

- SSBL and LBL Positioning
- 560+ Cymbal[®] channels and HPR
- High speed telemetry capabilities
- Modem Function
- Interleaves positioning and communication
- Interface up to 3 remote transducers
- 20-30kHz (MF) and 10-15kHz (LF) Models
- Transmitting power (max): 100W



MODEM

FREQUENCY BAND	21 - 31 kHz
ACOUSTIC SPEED	Up to 4,5 kbit/s, selectable for adaption to acoustic channel conditions
DATA INTERFACE	RS-232
CONFIGURATION SOFTWARE	TTC or TTC Light
ACTIVE CONTROL DURING OPERATION	Kongsberg Link User Protocol

cNODE® MODEM EXPLORER MODELS

MODEL	cNODE® MODEM EXPLORER 34 SUBSEA MF ALUMINIUM	cNODE® MODEM EXPLORER 37 SUBSEA MF TITANIUM	cNODE® MODEM EXPLORER 17 SUBSEA LF TITANIUM	cNODE® MODEM EXPLORER 30 and 10
				
PART NO.	390582	409159	418540	388775 (MF) / 418545 (LF)
HOUSING	Anodized aluminium (4500m depth rated)	Titanium (7000m depth rated)	Titanium (7000m depth rated)	Aluminium - for integration (Not depth rated)
SUPPLY VOLTAGE	48 VDC (24 VDC option)	48 VDC (24 VDC option)	48 VDC (24 VDC option)	15 VDC
DIMENSIONS (Length / diameter)	279mm / 89mm (plus 45mm connectors)	279mm / 79mm (plus 45mm connectors)	279mm / 79mm (plus 45mm connectors)	238mm / 68mm (plus 11mm attachment lug)
WEIGHT	3.4kg (air) 1.65kg (water)	2.3kg (air) 1.8kg (water)	2.3kg (air) 1.8kg (water)	0.7kg

TRANSDUCER OPTIONS

MODEL	TDR30H for MF	TDR180 for MF	TDR30V for MF	TDR40V for MF	TDR180 for LF	TDR50V LF
						
PART NO.	395569	395088	398291	321528	394674	330015
BEAM WIDTH	±15° horizontal (doughnut)	±90° omni directional	±15° vertical	±20° vertical	±90° omni	±25° vertical
DEPTH RATING	4500m	4500m	4500m	4500m	7000m	7000m
MATERIAL	Aluminium	Aluminium	Aluminium	Aluminium	Stainless steel	Stainless steel
OTHER OPTIONS	7000m / SS	7000m / SS	7000m / SS / Titan	7000m / SS	-	-

Not all transducer models are shown please contact your local Kongsberg representative for more information.

Specifications subject to change without any further notice.

429028/Rev. B/January 2018

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