





- 560+ Cymbal Wideband Channels
- LBL positioning and Sparse LBL ranging
- Telemetry
- External power supply (24 VDC)
- Choice of transducers
- Internal backup battery
- User control interface
- Depth rating of 4000 m and 6000 m



cPAP® MK II subsea transceiver

The cPAP® MK II is designed for positioning of an ROV or other underwater tethered vehicles within a subsea long baseline (LBL) or Sparse LBL array of cNODE transponders. Kongsberg Cymbal wideband acoustic protocol provides centimetric precision ranges and high data rates for telemetry.

The unit contains a rechargeable battery pack, reducing the peak current drawn from the external power supply and serves as an uninterruptable power supply for the transceiver in case the external voltage is disrupted.

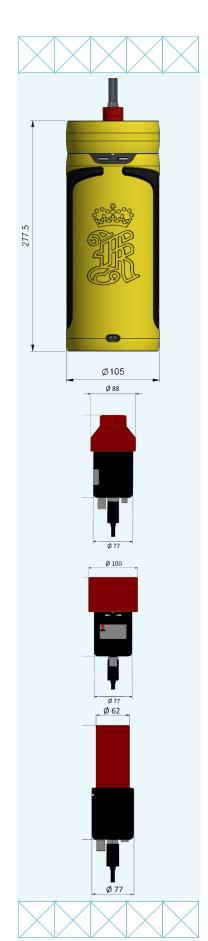




Navigation software APOS provides full LBL functionality for array calibration, navigation and control of the cPAP MK II. To provide flexibility for customized solutions a dedicated port can be used for NMEA commands, which means 3rd party software can control the transceiver and ranging to cNODE Transponders.

The 6000 m rated cPAP MK II is made from titanium, while the remote transducers are made from stainless steel. For the corresponding 4000 m versions they are all made from aluminum.

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TECHNICAL DATA cPAP MK II

Frequency	20-30 kHz (MF)	
Signal type	Cymbal wideband and FSK	
Range accuracy	Better than 0.02 m	
APOS Interface	RS232	
External power supply	24 VDC / 1 A	
Depth rating	4000 m	6000 m
Housing	Aluminium	Titanium
Length x diameter (mm)	279 x Ø 79	279 x Ø 79
Weight in air/water (kg)	4.2 / 2.2	5.8 / 3.8
Operating temperature	-5°C to + 55°C	

TRANSDUCER INFORMATION

Transducer model		TDR180	TDR40V	TDR30H
Transducer beam pati	tern			· Anno
Beam coverage		180° vertical	40° vertical	30° horizontal
Maximum source leve (re 1μPa)	·I	188 dB	203 dB	188 dB
Length x diameter (mm)	4000 m	160 x 88	161 x 100	213 x 77
	6000 m	160.5x 88	161 x 100	213 X 77
Weight in air/water (kg)	4000 m	1.7 / 1.0	2.3 / 1.3	1.5 / 0.8
	6000 m	4.2 / 3.5	5.1 / 4.1	3.4 / 2.8

ORDER INFORMATION

Par	t no.	Item	
4000 m Alu	6000 m St/Ti		
447900	475554	cPAP MK II subsea transceiver	
349742	375361	TDR180 remote transducer	
349743	375360	TDR40V remote transducer	
345773	375359	TDR30H remote transducer	
345772	345772	6 m transducer cable	
408094	408094	ROV interface cable, pigtail 60 cm	

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