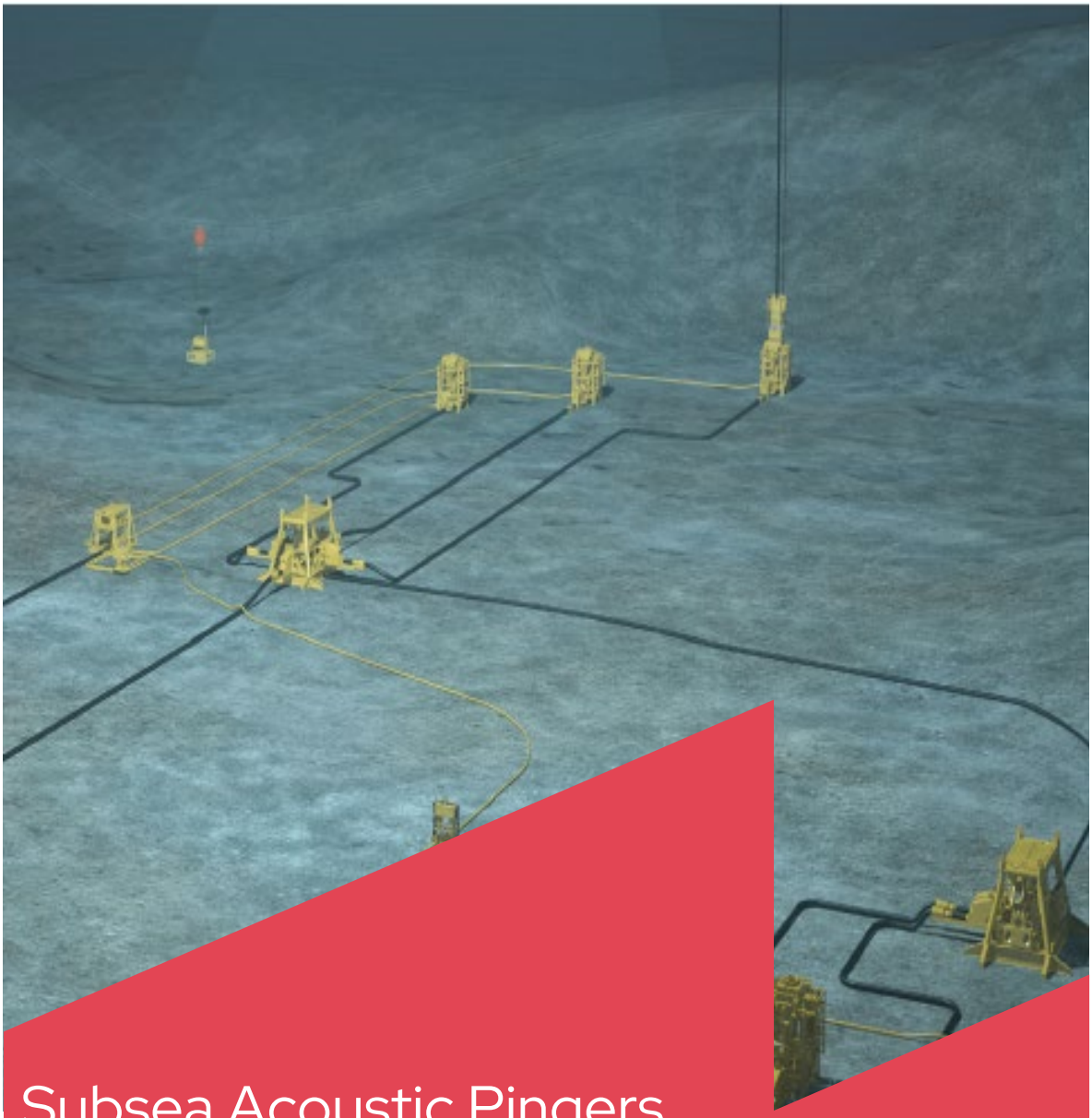

Subsea Acoustic Pingers

Light and compact design ideal for diver or ROV deployment and recovery

The Imenco Nautronix subsea acoustic pingers are designed to allow straightforward marking and relocaton of subsea assets such as oceanographic equipment, seabed templates and structures.

For further information, email
sales.nautronix@imenco.com
NHQ-MS-084 Rev 1.0 Dec 2024

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Acoustic Location Pingers and Receivers

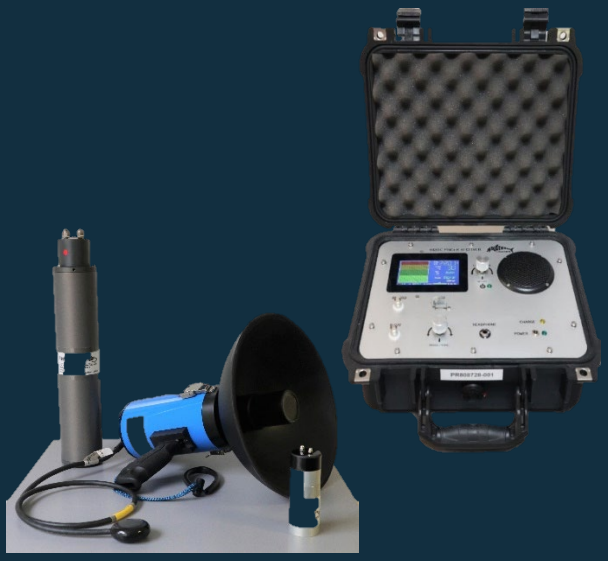
The pinger activates when immersed in sea water by means of contacts on the transducer head. The pinger emits an audio pulse at a set frequency, which can then be detected by our range of Nautronix pinger receivers, either from the vessel, an ROV or by a diver. This allows for fast and easy location of a subsea structure.

The Imenco Nautronix range of pinger receivers are high specification, sensitive acoustic receivers, designed to allow an operator to accurately locate a site or object marked with an acoustic pinger. The pingers can be detected from surface vessels using the 6120C surface receiver and omnidirectional transducer supplied.

Directional antennae for mounting on ROVs or submarines are also available for use with the receiver allowing pinpoint location of the pinger. A diver held unit is also available for shallow water operation. An ROV directional antennae is available to work with the 6120C receiver when accurate location is required. Model 6555 is designed to be mounted on the bow of a submersible or remote operated vehicle.

The Model 6280 diver held pinger receiver is a sensitive and highly directional acoustic receiver. The unit is battery powered and can be used to locate any pinger on a frequency from 8 to 50 kHz. Model 6280 is constructed of corrosion resistant anodised aluminium and rated to 305 metres operating depth.

A parabolic reflector with a hydrophone mounted at the focus points forms a very narrow listening beam, which allows the pinger receiver to precisely locate pingers.



General Specifications

- Beam pattern – omni-directional ± 3 dB
- Frequency ranges 12 kHz to 37 kHz
- Battery life range from 30 days to two years
- Battery shelf life - 2 years stored at 22°C or below
- Activation method - salt water immersion
- Operating temperature range: -2°C to 50° C
- Housing material - type HE-30 (6061-T6) hard anodised aluminium.
- Pressure relief screw provided in the housing for safe opening

Technical Specs

Model	6555 / 6556 ROV Mounted	560 (A/D Converter)
Frequency (kHz)	25-40	8-50
Bearing accuracy	± 5° at 27 kHz ± 3.5° at 30 kHz	-
Weight (kg)	2.9 in Air, 1 in Water	-
Operating depth (m)	1,220 / 3,000	n/a
Output	Analogue Signal	RS485 / 422 (uplink only)
Included	Instruction Manual, 0110-8100 Cable Assembly	Cable Assemblies Topside D/A

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Pingers

Model	Battery Life Pinging (days) (standard)	Power (watts)	Depth rated to (metres)	Pressure rating (bar)	Diamet (mm)	Length (mm)	Frequencies (kHz)
22xxB	720	0.25	1,830	183	114	419	12 to 37
24xxB	90	20	1,830	183	114	419	12 to 37
2481A	30	20	3,000	300	70	381	22 to 30
27xxA	30	0.25	1,830	183	38	158	12 to 37

Pinger Receivers

Model	6120C Surface	6280 Diver Held
Frequency (kHz)	8 – 50	8 – 50 in 1 kHz increments
Length (mm)	152	343
Width / Diameter (mm)	339 / 295	279
Operating depth (m)	-	305
Bearing accuracy	Omni Dimensional	± 20° -6 dB at 12 kHz ± 10° -6 dB at 27 kHz ± 5° -6 dB at 50 kHz
Battery Type	Lithium-Ion	8 Alkaline C Sized
Weight (kg)	4.9 in Air	3.6 in air, 1.1 in Water
Operating Voltage (V DC)	12	9 to 13
Output	Light, Sounder, Meter.	Earpiece
Included with Purchase	One Delux Headset, One 0111-0950 Transducer on 30m Cable, Nine Alkaline Batteries.	Instruction Manual, Batteries, Earphone Assembly, and Equipment Case.

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