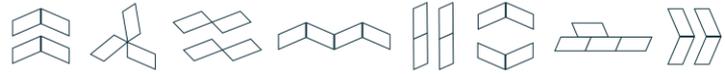


## Submarine Warning System

Protect drilling rigs, FPSO's or similar, operating in NATO authorized submarine transit or exercise areas

Heavy-duty underwater acoustic beacon designed to meet UK Ministry of Defence specifications to protect temporary Oil & Gas installations

Used in conjunction with the 6120C pinger receiver, this provides a minimum package required to comply with MoD requirements.



# Submarine Warning System

## 2433A Submarine Warning Beacon

## 6120C Portable Acoustic Pinger Receiver



### Advantages

- Construction designed for long term immersion
- Operate for up to 90 days on a single battery pack
- Automatic activation via saltwater contacts
- Second deployed beacon provides 100% redundancy
- Deploy additional beacons to avoid dead zones
- Verify operation with
  - 6120C portable acoustic pinger receiver
  - ROV with 6555 antenna and receiver

### Technical Specs

#### 2433 A Submarine Warning Beacon

Operating Depth	1,220 m
Min ensonification	174.5 dB re 1 $\mu$ Pa at 1 m 3 seconds per minute
Operating frequency	9.5 kHz $\pm$ 500 Hz
Pulse length / rate	115 ms $\pm$ 10%, 1 pulse every 2 s $\pm$ 10%
Coverage	Omnidirectional
Pulse rate	1 pulse every 2 s $\pm$ 10%
Battery life	90 days
Dimensions	976 mm x $\varnothing$ 130 mm
Weight	16 kg in air, 7.5 kg in seawater
Temperature	Operating: -2 to 50 $^{\circ}$ C Storage: -30 to 22 $^{\circ}$ C
Receiver Options	6120C + 30 m dunking transducer 6555 ROV antenna and receiver

#### 6120C Pinger Receiver

Battery	2 x 3.7 V, 13.4 Ah Li-Ion
External Voltage	12 VDC via external adapter
Operating Range	Continuously tuneable, 8-50 kHz
Gain	120 dB
Earphone Impedance	600 $\Omega$
Connectors	Antenna: BNC, Earphones: $\frac{1}{4}$ ' Jack
Battery Life	24 hours (full brightness)
Dimensions	HxWxD: 152 x 339 x 295 mm
Weight	4.9 kg
Temperature	Operating: -15 to 50 $^{\circ}$ C Storage: -30 to 65 $^{\circ}$ C
Construction	ABS plastic body c/w anodised aluminium front panel