

---

# Datasheet

## AODC Emergency Transponders

---



---

### Description

Sonardynes AODC Emergency Transponders have been developed to satisfy the requirement for a portable and economic device for fitting to Diving Bells which will provide an up-to-date means of emergency relocation.

They also satisfy the growing need for small, medium-range transponders, which can be easily handled/ deployed by divers and vehicles and used for making high precision measurements and assisting area searches in low visibility.

Operating in the frequency band of 37-40kHz, these transponders have been developed to meet stringent AODC requirement. They operate in the 'Sequential Mode' and are interrogated on their own individual preset interrogation frequency (Channels A or B). The reply frequency is preset to the 'emergency reply frequency' of 37.5kHz.

The excellent transducer response time and stable turnaround delays allows good measurement accuracies to be achieved and the delayed response provides a 'down to zero' ranging capability. The output power selected allows a compromise between an acceptable operating life, operation in high levels of noise and as a minimum, an interrogation range of 500 metres.

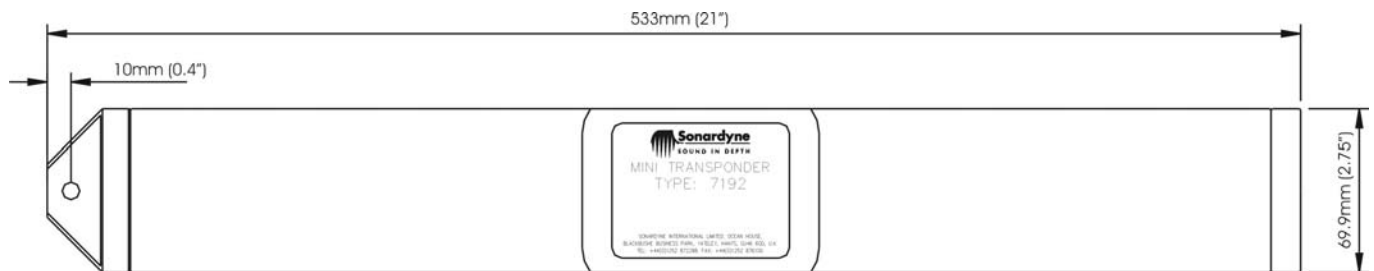
---

### Key Features

- Meets AODC requirements
  - Compact, rugged design
  - Minimum interrogation range of 500 metres
  - Choice of operating channels
  - Up to 18 months listening life
-

# Specifications

## AODC Emergency Transponders



Feature	Types 7097 & 7192	
Operating Frequency	36-44kHz	
Individual Emergency Interrogation	Preset during manufacture to Channels A or B	
Channel Frequency	38.5kHz & 39.5kHz	
Emergency Reply Frequency	37.5kHz	
Turnaround Delay	125.8 ms (crystal controlled)	
Transponder Source Level	185dB re 1µP at 1 metre	
Beam Pattern	Hemispherical	
Minimum Listening Life In Water	Type 7097 6 months (Alkaline)	Type 7192 18 months (Lithium)
Number Of Replies @ 85 dB	900,000	
Remote Low Battery Indication	Listening life of 3 months and minimum reply life of 5 days	
Mechanical Construction	Anodised aluminium housing	
Depth Rating	300 metres	
Dimensions (LxDia)	533mm x 69.9mm	
Weight In Air	3kg	
Weight In Water	1kg	