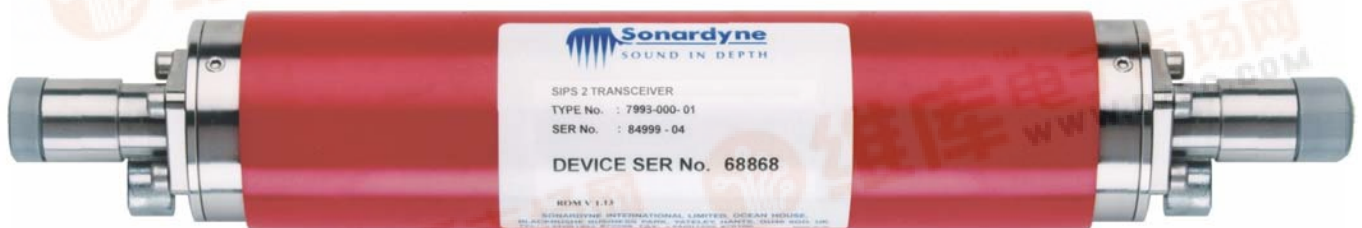


## Datasheet

# SIPS 2 Tailbuoy Transceiver



### Description

SIPS 2 Tailbuoy Transceivers are intelligent acoustic devices used to measure one way slant range distances underwater.

The unit, based on the SIPS 2 XSRS, is specifically designed to mount on or under a tailbuoy with its power supplied by the tailbuoy battery instead of the XSRS battery pack.

The unit is available in several different variants, including right-angle or remote transducer and can be fitted with either AGP or AGM connectors.

Once fitted to a tailbuoy the software requires only a simple change of device number to enable the tailbuoy transceiver unit to become operational.

Power is supplied to the unit via a standard 4 pin AGP or AGM connector at 12 – 60 volts DC. Communications, which are taken from the streamer coil circuit, also run through this connector.

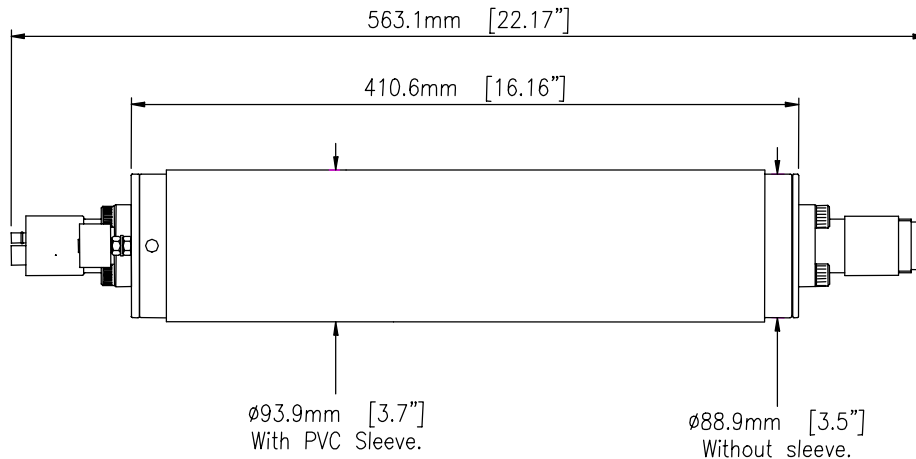
Each receiver is capable of receiving 1 of 60 unique digital signals. The use of digital acoustic signals and digital processing techniques enable the XSRS to transmit and receive signals in the same event. In addition, they are able to transmit and receive SIPS 1 style tone burst for cross wake ranges.

### Key Features

- Removes the need to change batteries on tailbuoy mounted units
- Compatible with XSRS and HGPS transceivers
- Inter-tailbuoy ranges can be measured
- Capable of receiving 16 ranges per cycle
- Designed to transmit to an unlimited no of units

# Specifications

## SIPS 2 Tailbuoy Transceiver



Feature	Type 7993
Operating Frequency	Sonardyne EHF (60-110kHz)
Receive Sensitivity (Controllable)	73dB ref 1µPa @1m
Source Level (Controllable)	Maximum 193dB ref 1µPascal @1m
Immunity to Multipart	System can resolve bottom bounce/surface bounce greater than 0.3m
System Sync Resolution	75mm @ 1500ms Vp
Acoustic Range Resolution	5mm @ 1500 ms Vp
Number of Receive Channels	4
Number of Tone Acoustic Signals	6
Number of Digital Acoustic Signals	60
Power Requirements	12-60V DC
Power Consumption	60mA Peak (@12.7V DC operation) 25mA average for 6-8 second operation
Weight in Air	9kg (HGPS Remote Transducer Transceiver 7993) 13.5kg (HGPS Right Angle Transceiver 7994)
Weight in Water	6kg (Remote Transducer Transceiver 7993) 10kg (Right Angle Transceiver 7994)
Note: Transceivers can transmit and receive in same event allowing for multiple observations to be collected faster.	