

Datasheet

SIPS 2 XSRS Carbon D ASV



Description

The Type 8088 XSRS Carbon D ASV is the next step in the evolution of Sonardynes XSRS transceiver range, designed to take the best ideas from the type 8005 and 8018 XSRS units and improve where possible.

An XSRS transceiver is an intelligent acoustic device used to measure one way slant range distances underwater, the units are battery powered and are mounted on the streamer sections using industry standard collars. They can also be mounted on tail buoys. The XSRS units communicate with the XSRS controllers by means of the inductive coils and communication circuit within the streamers.

The Type 8088 is equipped with a direct reading sound speed sensor. This 'time of Flight' sensor provides superior accuracy and ease of use compared to the more traditional CTD methods, particularly in areas affected by fresh water and salt water mixing.

The type 8088 offers superior corrosion resistance, even in extreme

conditions, due to its carbon composite housing and duplex stainless steel construction. This construction means that the unit has a low in water weight, reducing the need for floatation near the device.

The type 8088 is compatible with all previous SIPS2 transceivers and as such uses digital acoustic signals and digital processing techniques to enable it to transmit and receive signals in the same event. In addition, as with all SIPS2 units, it is able to transmit and receive tone burst signals for ranges in poor acoustic environments.

With the option of using standard 'D' size Alkaline or Lithium cells the type 8088 XSRS provides users with a low battery cost / long battery life unit.

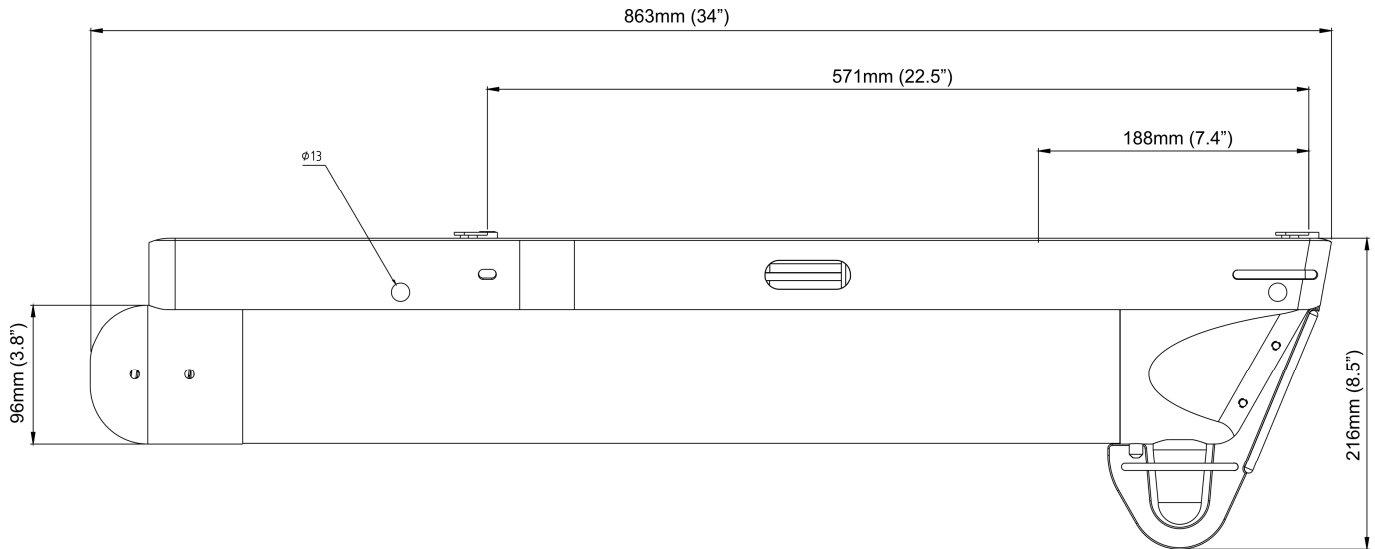
With the ability to upgrade from previous versions of SIPS2 XSRS transceivers and a lower purchase price than its previous equivalent unit the 8088 XSRS offers large savings in both capital equipment and operational costs.

Key Features

- Integral direct reading sound speed sensor
- Superior corrosion resistance due to carbon composite housing and duplex S/S construction
- Light in-water weight
- Long operating life
- Lower purchase cost than previous equivalent unit
- Choice of Alkaline or Lithium battery packs
- Compatible with all SIPS2 transceivers
- Capable of receiving 16 ranges per cycle
- Designed to transmit to an unlimited number of units
- Flash upgradeable firmware
- Sealed electronics compartment

Specifications

SIPS 2 XSRS Carbon D ASV



Feature	Alkaline	Lithium
Operating Frequency	EHF (55-110Hz)	EHF (55-110kHz)
Transmit Source Level (Controllable)	Max. 190dB re 1µPa @1m	Max. 190dB re 1µPa @1m
Receive Sensivity (Controllable)	73dB re 1µPa @1m	73dB re 1µPa @1m
Acoustic Range Resolution	5mm @ 1500 ms Vp	5mm @ 1500 ms Vp
System Sync Resolution	75mm @ 1500 ms Vp	75mm @ 1500 ms Vp
Immunity to Multipath	System can resolve bottom bounce/surface bounce greater than 0.3m	
Number of Digital Acoustic Signals	60	60
Number of Tone Acoustic Signals	6	6
Number of Received Channels	4	4
Note: Transceivers can transmit and receive in same event allowing for multiple observations to be collected faster.		
Battery Life (Typical)	10 - 12 Weeks	28 - 34 Weeks
Weight in Air	10.6kg	9.9kg
Weight in Water	2.6kg	1.9kg