Sonardyne UK (Head Office)
T. +44 (0) 1252 872288
F. +44 (0) 1252 876100
E. sales@sonardyne.com
www.sonardyne.com

Datasheet

SIPS 2 HGPS Transceiver

Description

A key component in Sonardyne's SIPS System, HGPS (Head and Gun Positioning System) transceivers are intelligent, shock-mounted acoustic devices designed to position seismic sources and tailbuoys.

HGPS units are designed to mount on airgun arrays, buoys, towfish and vessels and can be supplied with different transducer arrangements to accommodate an operator's preferred deployment method.

HGPS Transceivers are hard wired into individual channels on the SIPS2 Controller cards and do not need batteries. A two wire D.C. differential system with a floating ground powers the HGPS units. The communications are superimposed on the D.C. level this is the same as that used by XSRS transceivers.

Each HGPS/RTS Controller card can handle up to eight HGPS Transceivers.

Key Features

- Direct power from topside equipment
- Compatible with XSRS transceivers
- Choice of right-angle and remote transducers
- Shock mounted electronics to withstand harsh operating environments
- Capable of receiving 16 ranges per cycle
- Designed to transmit to an unlimited no of units
- Flash upgradeable firmware

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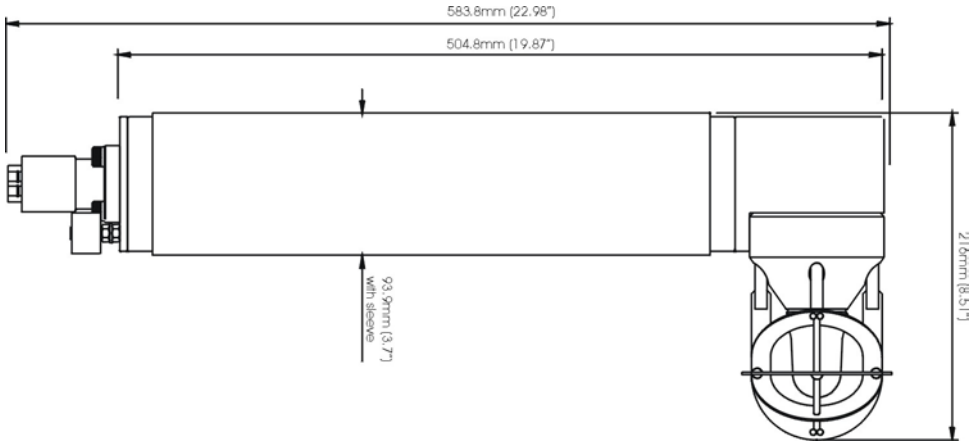
Specifications

SIPS 2 HGPS Transceiver



Feature	Type 7888
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
Weight in Air	13.5kg (HGPS Right Angle Transceiver 7888) 9kg (HGPS Remote Transducer Transceiver 7887)
Weight in Water	10kg (HGPS Right Angle Transceiver 7888) 6kg (HGPS Remote Transducer Transceiver 7887)
	Note: Transceivers can transmit and receive in same event allowing for multiple observations to be collected faster.