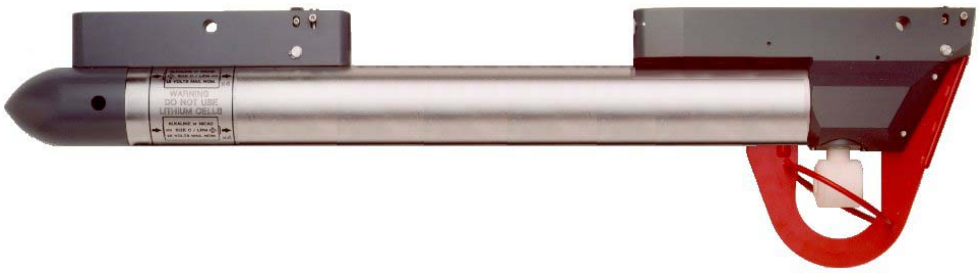
Sonardyne UK (Head Office)
T. +44 (0) 1252 872288
F. +44 (0) 1252 876100
E. sales@sonardyne.com
www.sonardyne.com

Datasheet

SIPS CT Sensor (Discontinued)



Description

The Type 7889 SIPS CT sensor has been designed in response to industry requests for continuous on-line monitoring of velocity at normal streamer depth.

Velocity is calculated from conductivity and temperature measurements and may be used directly by the main navigation computer. Although measurements are taken in a plane the resultant velocity may be used to indicate that a full water column sample may be required to correct the seismic data. The Velocimeter is based on SIPS 2 mechanics but versions are fully compatible with earlier SIPS 1 systems.

The unit incorporates an F.S.I. digital conductivity and temperature sensor and conversions to sound velocity are calculated according to the Chen and Millero 1977 algorithm. Depending on the nature of the survey environment, velocity readings can be obtained at every shot point or at chosen intervals up to one reading every 256th shot point. In practise, assuming an interval of 10 seconds and a reading every 12 shots, the normal alkaline battery pack will last a minimum of 90 days. Battery power consumed and current pack voltage are monitored and reported to the SIPS Processor.

Parameters are set up as part of the normal SIPS 2 User Interface and are then integrated with the normal acoustic data acquisition cycle. Current velocity is reported on screen and output with the acoustic data. Internally, the velocity may be used as an input to the "Genie" adjustment engine which is used to optimise overall acoustic performance.

On SIPS 1 systems, the unit's set-up parameters are input to the SIPS Processor via the PC based WINSIPS programme. In either case, velocity may also be set to be output over a dedicated RS232 port and may be read by any suitable communications software package (PROCOMM+) As an option, the unit may be programmed to also report conductivity and temperature as raw data. This enables independent calculation and verification of velocity to be made.

Key Features

- Provides accurate sound velocity reading
- 90 day battery life with 1 reading every 2 minutes
- Accurate to 0.5m/s
- Data output combined with SIPS and/or separate RS232
- Integrated communications with SIPS on bird lines
- Mechanics based on SIPS2 XSRS units
- Depth rated to 150 Metres

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Specifications

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