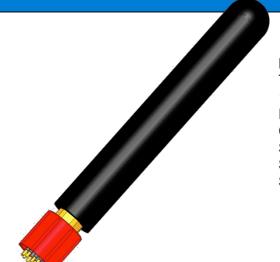


A1 Compact, low power, low noise, digital hydrophone with embedded processing



Main Features:

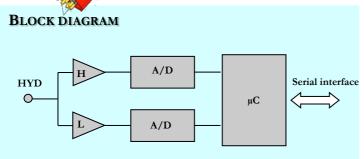
Two ADC with different gain for true 50 to 180 dB re

1uPa dynamic range Hi depth: up to 3000 m.

Configuration via serial protocol: Sampling frequency 5 to 100 kS/s.

Selectable Equalizer: Hi Pass Filter one pole at 3.2 kHz.

Selectable processing algorithms



EMBEDDED FUNCTIONS

NOISE SPECTRA

ACOUSTIC SHIP SIGNATURE

MARINE MAMMAL DETECTION

PREPARED FOR SEISMIC EVENT DETECTION

OPEN-SOURCE FOR ADD-ON PROGRAMMING

A1 - SPECIFICATIONS

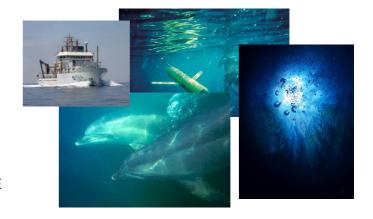
Sensitivity (low gain) - 178 dB re 1 μ Pa at 5 kHz Sensitivity (high gain) - 148 dB re 1 μ Pa at 5 kHz Flat frequency range from 1 Hz to 50 kHz, \pm 1,5 dB

Beam pattern Omni-directional
Depth 3.000 meters
Power supply 4,6 to 42 Vdc
Power consumption 300 mW

Dimensions: 35 mm x 270 mm Moulding Material Polyurethane

Output Interface Digital, Serial, EIA RS-422 Plug and work OGC-PUCK enabled

Sensor web Processed data via OGC SWE



Digital Hydrophone A1 innovations

Very compact digital hydrophone with embedded processing Designed for Gliders / AUVs, also useable for deep fixed platforms Measurements of human activities, nature sounds and seismic events.

