

Specification

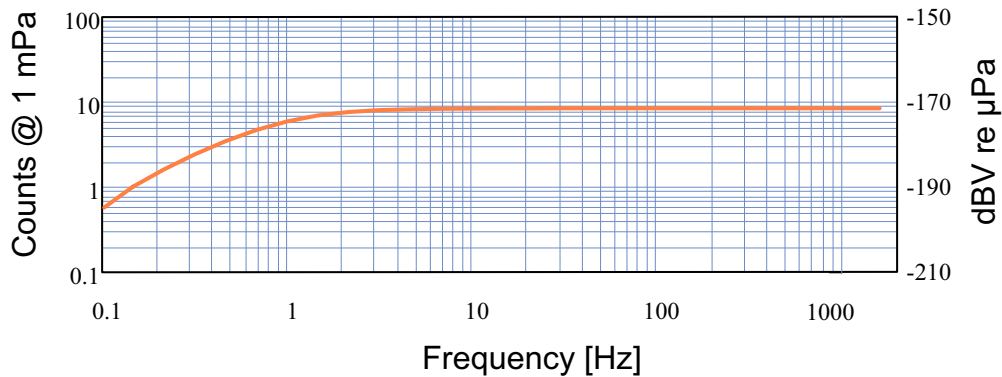
icListen LF 1600Hz

Broadband Smart Hydrophone SL2-SER-4F/SL35-USB

The icListen LF Smart Hydrophone is a digital hydrophone that processes and stores acoustic data. It transmits waveform or spectral data over its data link in real-time.

Performance	Value
Peak Measured Signal	177 dB re μPa
Frequency Response	1 Hz to 1600 Hz
Noise (Spectral Density)	44 dB re $\mu\text{Pa}^2 / \text{Hz}$ at 10 Hz 18 dB re $\mu\text{Pa}^2 / \text{Hz}$ at 1000 Hz
Sensor Receive Sensitivity - see chart for details	-171 dBV re μPa
Data Interface	Serial Ethernet
Max Depth	200m Standard 3500m Titanium

Instrument Resolution and Sensitivity



Instrument access methods

- **Web browser** to view instrument status, download logged data, configure instrument.
- **Stream** time series and FFT over TCP/IP socket. Used by the Lucy program, and can be used to develop user drivers.
- **Lucy** PC software to view & process data, enquire & setup instrument, retrieve data & manage data files.

Mechanical

Mechanical	mm
Overall length, including connector	267
Body and sensor element length	230
Body (can) only length	165
Body diameter	45
Sensor element diameter	20



Dimensions are the same for 200m and 3500m depth rated units.

Specification

Item	Description
Material	200m unit - Engineered plastic. 3500m unit - Titanium.
Calibration	Done at 30 Hz in air. High frequency tank calibration measurements supplied with instrument.
Sample Rates	4000, 2000, 1000, 500, 250 Samples/sec. Sigma-delta primary sampling at 16 MHz.
Power	10.8-26.4 (12-24) Vdc, reverse polarity protected. Note: reversing polarity causes h/w reset. Unit draws less than 125mW, except ethernet version when connected.
Batteries	Internal lithium Ion 3.7V rechargeable, suitable for air shipping Capacity 2.6 A-h
Safety	Electrical interface is designed to survive miswiring. Isolation between DC power and the instrument or communication interface is greater than 100 MΩ, @ 250Vac. Plastic units use brass connectors. Titanium units use titanium connectors.
Connector	Standard instrument connector is SubConn MCBH-8M. Pinouts are available in the instrument user's guide.
Cable	Ethernet 100m Maximum Ethernet Extender Option 1600m Maximum Serial RS422 1200m Maximum Serial RS232 5m Maximum