

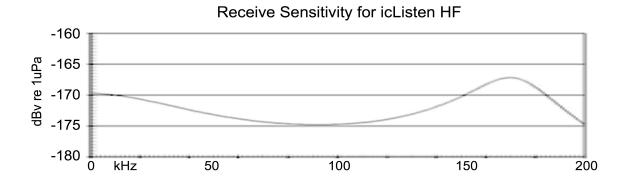
Specification

icListen HF 200 kHz

Broadband Smart Hydrophone SB2/35-ETH

The icListen HF 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 | 10 Hz to 100 kHz ±3 dB 10 Hz to 200 kHz ±5 dB |
| Noise (Spectral Density) | 30 dB re μ Pa ² /Hz at 10 kHz |
| Sensor Receive Sensitivity - see chart for details | -171 dBV re μ Pa with pre-amp |
| Data Interface | Ethernet Standard Serial Optional |
| Max Depth | 200m Standard 3500m Titanium |



Instrument access methods

- Web browser to view instrument status, download logged data, configure instrument settings & power down.
- SFTP to manage files on instrument. Copy, & delete stored data files. Install firmware upgrade.
- Stream time series and FFT over UDP or 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.



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 | |



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 | 512, 256, 128, 64, 32, 16, 8, 4, 2 & 1kSample/sec. Waveform sample rate can be different from that for FFT. Sigma-delta primary sampling at 16 MHz. |
| Power | 12-24 (10.8-26.4) Vdc, reverse polarity protected. Note: reversing polarity causes h/w reset. Unit draws 1.2W. Ethernet version when connected draws 2W. |
| 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 M Ω , @ 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. |
| Cables | Ethernet 100m Maximum Ethernet Extender Option 1600m Maximum Serial RS422 1200m Maximum Serial RS232 5m Maximum |