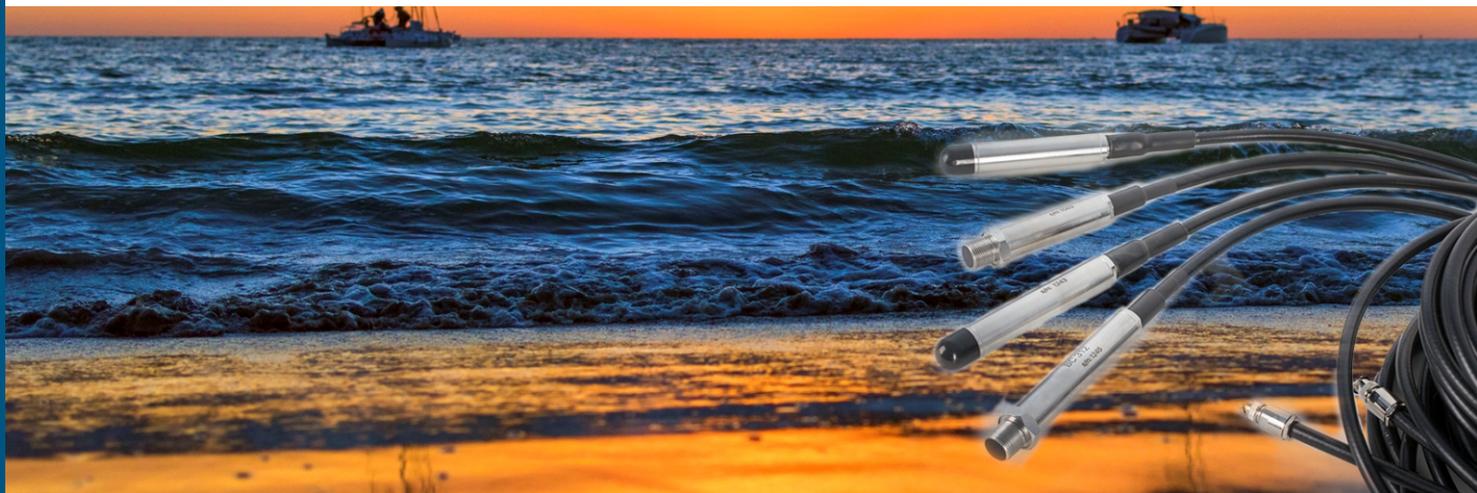


ZETLAB

HYDROPHONES BY ZETLAB

Underwater and threaded product versions available



The hydrophone consists of a piezoelectric transducer with a sensing element made of ceramic piezoelectric materials. The sensing element and its internal supporting structure are reliably fixed inside of a sound-proof chloroprene rubber casing. The main casing is made of a solid, corrosion-proof stainless steel, which is also characterized by resistance to adverse environmental impacts and high reliability in the seawater environment. Thus, all the metal parts of the hydrophone are duly protected. The hydrophones have an even frequency characteristic in the entire controlled frequencies range in any homogeneous environment (including air, sea and fresh water).

| Labelling | BC 311 | BC 312 | BC 313 | ZET 321 | ZET 323 |
|---|--|-----------------|-------------------------------|-----------------|---|
| Sensitivity level (in relation to 1 V/μPa) | -204 dB | -192 dB | -206 dB -186 dB -166 dB | -213 dB | -212 dB -192 dB -172 dB |
| Frequency range | 3... 100 000 Hz | 20... 20 000 Hz | 20... 20 000 Hz | 3... 160 000 Hz | bottom 20 Hz, 20 000 Hz top 160 000 Hz |
| Maximal value of the measured pressure amplitude | 100 kPa | 50 kPa | 50 kPa | 400 kPa | 2000 kPa |
| Dimensions (L X Ø): underwater hydrophone | 173 X 23 mm | | | | |
| threaded hydrophone | 171 X 23 mm | | | | |
| Max. cable length | 250 m | 100 m | 1000 m | 40 m | 1000 m |
| Operating environment medium | water, air, oil, oil products, natural gas | | | | |
| Operating environment temperature | 0... +60 °C | | | | |
| Ambient air temperature | -60... +80 °C | | | | |

- Leak detection and monitoring systems
- Marine mammals acoustic studies
- Available product versions: underwater or threaded
- Hydraulic components vibration monitoring and diagnostics
- This product is included into the national register of the measurement instruments



The leading manufacturer in the territory of the RF. The Company was founded in 1992 on the basis of the Special Design Bureau of the Federal State Unitary Enterprise of the All-Russian Scientific Research Institute of Physical, Technical and Radio Measurements (SKB FSUE "VNIIFTRI") which is the most important unit of the national measurement uniformity management system.

