

## SQ09 Transmit/Receive Hydrophones

## HYDROPHONES



### OVERVIEW

The SQ09 is a general purpose projector and hydrophone. It has good sensitivity and depth capability. The transducer properties are stable with both temperature and depth. The hydrophone will withstand continuous immersion in isoparaffinic hydrocarbon fluids and sea water.

### SPECIFICATIONS

**Voltage sensitivity:**  $-192 \pm 1.5$  dBV re 1  $\mu$ Pa @ 20 °C, 25 V/bar

**Charge sensitivity:** 250 nC/bar

**Capacitance:** 10 nF  $\pm$  15 % @ 20 °C

**Capacitance variation with temperature:** 0.33% increase per °C

**Capacitance variation with depth:** 7% loss per 1,000 m (3,300 ft)

**Operating depth:** down to 2,500 m

**Frequency response:** 3 Hz to 20,000 Hz

**Recommended max. drive voltage:** 1,000 V

**Diameter:** 50.8 mm (2.0")

**Length:** 63.5 mm (2.5")

**Mass:** 285 grams (10.1 oz)

**Storage and operating temperature:** -30 to +60 °C

**Connector:** MCBH2M Male 2 Pin

**Electrical insulation between leads:** > 500 M Ohms

**Water blocked leads:** no

### FEATURES

- General purpose hydrophone and projector
- Good sensitivity and depth capability
- Custom designs

### APPLICATIONS

- Industrial hydrophone
- Echo sounding (24kHz)