

- STANDARD USED FOR UK MOD
- FAST TRANSIENT RESPONSE
- REFERENCE STANDARD
- HIGH OPERATIONAL ENDURANCE
- LOW COST



The TII is a miniature transducer designed to measure underwater explosive shock levels and pressure transients in fluids.

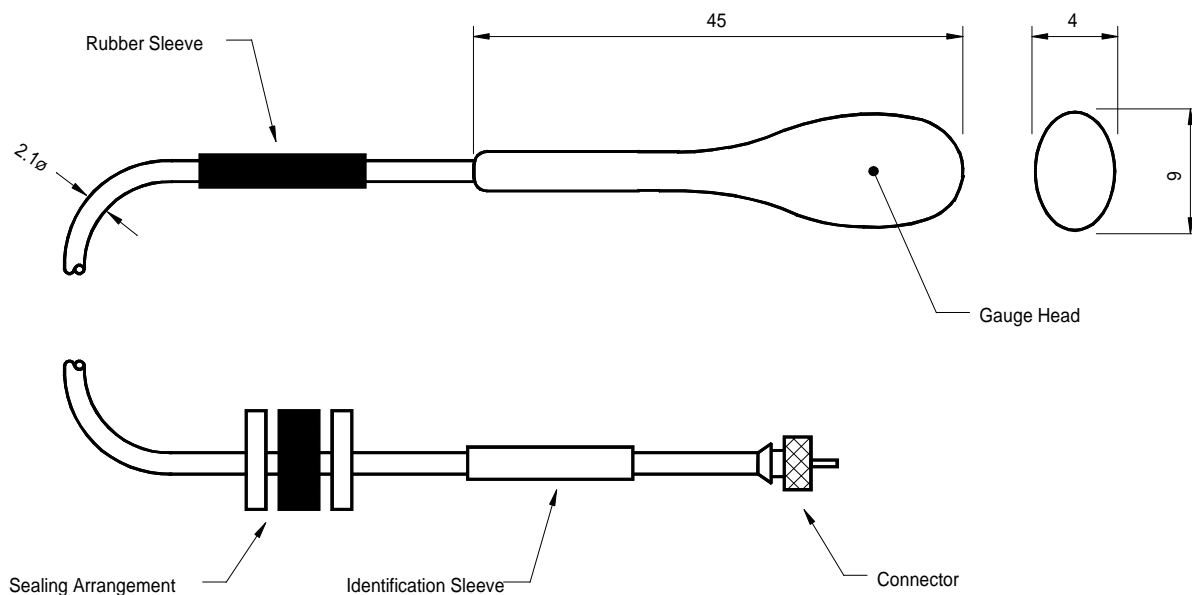
Used by defence organisations throughout the world, it has become the standard reference hydrophone for the UK Ministry of Defence test ranges.

The hydrophone is based upon a piezoelectric tourmaline crystal connected to a miniature low noise coaxial cable. The crystal and a small length of cable are coated in a special waterproof compound designed to provide a high level of insulation and a fast transient response.

With a rise time of less than  $4\mu\text{sec}$  and a dynamic pressure range of 0-275 MPa this transducer is intended to measure pressure levels and profiles from underwater explosions.

A 15mm diameter underwater compression fitting is provided to seal the cable into the customer's instrumentation housing.

Certified transducer calibration based upon a dead-weight tester can be provided on request.



All dimensions in mm

**Technical Specification**

<b>Measurement Pressure Range</b>	<b>0 - 275 Mpa 0 - 40,000 psi</b>
<b>Nominal Charge Sensitivity</b>	<b>0.07 pC / Kpa 0.5 pC / psi</b>
<b>Insulation Resistance</b>	<b>10<sup>5</sup> M Ohms</b>
<b>Connector Type</b>	<b>Microdot 10/32</b>
<b>Cable Type</b>	<b>Miniature, Low Noise Coaxial</b>
<b>Cable Length</b>	<b>30 metres standard Additional lengths supplied to order</b>
<b>Operating Temperature</b>	<b>0 to +50 °C</b>
<b>Storage Temperature</b>	<b>-20 to +80 °C</b>

Data illustrated is taken from actual in-water measurements