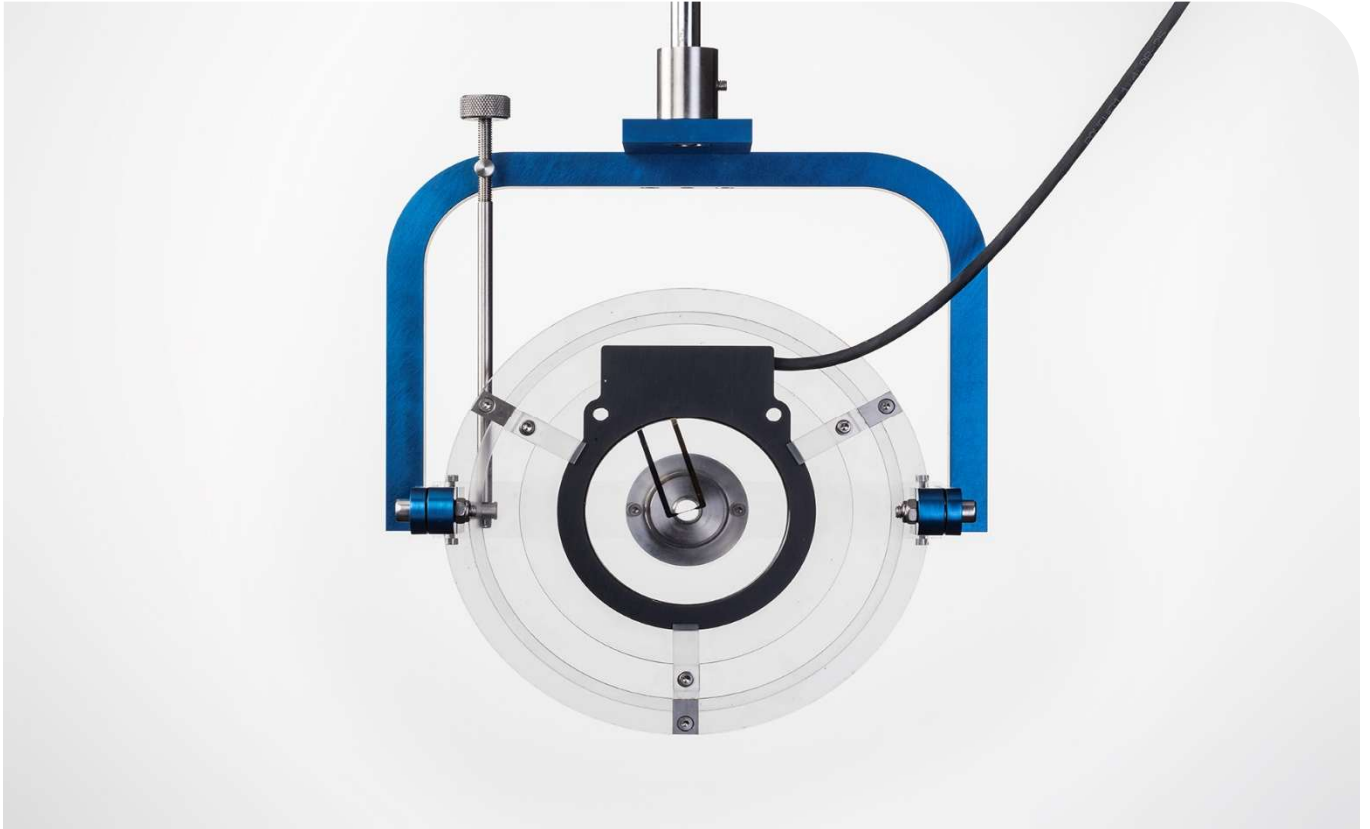


Hydrophone calibration services



Precision Acoustics offers a range of hydrophone calibrations conducted in our measurement lab in Dorchester next to our manufacturing facility.

If you use hydrophones, you'll already be aware of the need for periodic recalibration of devices. Most IEC standards require a recalibration interval of no more than one year and Precision Acoustics can assist with this.

We are able to provide hydrophone calibrations that are traceable to National standards (NPL-London) in the range 200 kHz to 30 MHz. Calibrations in the range 1-20 MHz and 1-30 MHz are accredited under ISO/IEC 17025:2017 with a stated compliance to IEC 62127-2:2007.

Precision Acoustics is a UKAS accredited laboratory number 28763.

CALIBRATION OPTIONS

Option	Calibration code	Frequency range	Increment	Comment
1	PA0.2-1-50K	0.2 MHz to 1 MHz	50 kHz	Traceable
2	PA0.3-1-50K	0.3 MHz to 1 MHz	50 kHz	Traceable
3	PA1-20-1-17025	1 MHz to 20 MHz	1 MHz	Accredited
4	PA1-30-1-17025	1 MHz to 30 MHz	1 MHz	Accredited

HYDROPHONE COMPATIBILITY

All hydrophones are supplied with a default calibration, with other options shown in the table below – using the following symbols:

○	not available	✓	recommended
✓	default	✗	not recommended

Product code	Hydrophone type	1	2	3	4
NH0040	Needle Hydrophone – 40 µm	○	○	✗	✓
NH0075	Needle Hydrophone – 75 µm	○	○	✗	✓
NH0200	Needle Hydrophone – 0.2 mm	○	✓	✗	✓
NH0500	Needle Hydrophone – 0.5 mm	○	✓	✗	✓
NH1000	Needle Hydrophone – 1.0 mm	○	✓	✓	○
NH2000	Needle Hydrophone – 2.0 mm	○	✓	✓	○
NH4000	Needle Hydrophone – 4.0 mm	○	✓	✓	○
FSV2	Fibreoptic Sensor V2	○	✓	✗	✓
ML4X50	LF Piston hydrophone	✓	✓	○	○
UT1604	Membrane – Co-planar 16 µm, 0.4 mm diameter	○	✓	✗	✓
D1202	Membrane – Differential 12 µm, 0.2 mm diameter	○	✓	✗	✓
D1602	Membrane – Differential 16 µm, 0.2 mm diameter	○	✓	✗	✓
D1604	Membrane – Differential 16 µm, 0.4 mm diameter	○	✓	✗	✓

For additional calibration options, including other makes of hydrophone or custom sensors please contact us by phone or email.

If you are using your measurement equipment for the declaration of the output of medical equipment to support a regulatory submission, we strongly recommend obtaining a calibration from a National Measurement Laboratory (e.g. NPL) since this provides lower experimental uncertainty.

Contact pa@acoustics.co.uk for further information.