

Piston on a Sphere

The 'Piston on a sphere' calibrator consists on sound source with a known acoustic impedance in front of the loudspeaker. The impedance is modelled as a 'piston on a sphere' and the loudspeaker acts as a piston. The set up is used to calibrate all probe types in the full acoustic bandwidth. A reference pressure microphone can be mounted airtight due to rubber rings at the holes to calibrate at lower frequencies. It is also possible to mount the reference pressure microphone in front of the loudspeaker to calibrate at higher frequencies.



Typical applications

- ✓ Calibration of all type of Microflown probes

Specification - Piston on a Sphere

Method specs:

Low frequencies method : 10Hz - 400Hz
High frequencies method: 300Hz - 20kHz

Setup specs:

Weight : 1kg
Diameter probe mounting: ½ inch
Connector to sphere : BNC

Speaker specs:

Frequency response : 80Hz -20kHz
Power handling : 15 - 110 Watts
Impedance : 8 Ohm
Diameter : 12,4 cm
Weight : 480g
S/N : >95dB
Max SPL : 111 dB