

# SQ-6

## Electro-acoustic coupler



### Applications

- ✓ pressure chamber secondary calibration
  - microphones (IEC 61094-5)
  - sound level meters and sound level measuring chains (IEC 61672)
- ✓ phase calibration of intensity probes

### Selected Data

- ✓ high sound pressure level:
  - 114 dB: 10 Hz ... 20 kHz
  - 145 dB: 16 Hz ... 5 kHz
- ✓ low distortion over entire frequency range: < 0.2 % (THD)

### Features

- ✓ for ½" capsule devices
- ✓ compact design of 45 mm × 60 mm
- ✓ ¼" photo thread compatible mounting for various DUT arrangements
- ✓ fully symmetric electro-acoustic topology ensuring a more uniform sound field for reliable results
- ✓ ease of use without compromising the performance through efficient handling



## Technical Data

Sound field	Pressure chamber	
Frequency range	10 Hz...20 kHz	
Max. electrical power of sound source	2.4 W	
Distortion factor at 94 dB	< 0.2 % (THD)	
Devices under test (DUTs)	½" microphones	
Maximum sound pressure level <sup>1)</sup>	10 Hz...20 kHz	114 dB
	16 Hz...5 kHz	145 dB

All specifications are at room temperature unless otherwise specified. <sup>1)</sup> Depending on frequency range and short-term peak value.

## System Components

- ✓ SQ-6 electro-acoustic coupler
- ✓ power amplifier, including power supply
- ✓ LS adapter (open grid for WS2P Microphone)
- ✓ system cables
- ✓ table tripod with 360° ball head, 3 working heights
- ✓ O-rings and spacers for various ½" microphone capsules

## Accessories (optional)

Reference standards (recommended)

½" condenser microphone cartridge type LS1P or WS1P with amplifier

▼ **Application example:** Calibration of a typical measuring microphone using the SQ-6



▼ **Cross section** of the SQ-6 with dimensions

