

SQ-4.2

Electro-Acoustic Coupler



O Applications

- Pressure chamber secondary calibration of microphones (IEC 61094-5) and dosimeters (IEC 61252)
- Pressure chamber secondary calibration of sound level meters and sound level measuring chains (IEC 61672)

Selected Data

- ✓ Wide frequency range: 31.5 Hz...20 kHz
- ✓ Low distortion, even at low frequencies
- Sound pressure level up to 134 dB at selected frequencies
- ✓ Symmetric small pressure chamber

○ Features

- ✓ True pressure chamber calibration of ½" microphones
- ✓ Calibration of dosimeters (diameter ½")
- Calibration of measuring microphones (capacitor and electrets microphones in the sizes $\frac{1}{2}$ " and with adapter $\frac{1}{4}$ ")
- Supply of sound pressure level for the calibration of sound level meters and measuring chains
- Including microphone and sound level meter fixture
- Including power amplifier



© Technical Data

Sound field	Pressure chamber	
Frequency range	31.5 Hz20 kHz	
Max. electrical power of sound source	0.5 W	
Distortion factor at 94 dB (31.5 Hz1 kHz)	< 3% (THD)	
Applicable microphones	½" microphones and 1/4" microphones (with adapter)	
Maximum sound pressure level (measurement with 1/2" microphone adapter)	31,5 Hz< 100 Hz 100 Hz1.25 kHz > 1.25 kHz3.15 kHz > 3.15 kHz6.3 kHz > 6.3 kHz12.5 kHz > 12.5 kHz20 kHz	124 dB* 134 dB* 124 dB* 114 dB* 94 dB* 74 dB*

All specification are at room temperature unless otherwise specified. * Depending on frequency range and short-term peak value.

- ✓ SQ 4.2 active electro-acoustic coupler
- Power amplifier, including power plug and plug adapter
- Microphone and sound level meter fixture
- Microphone adapter 1/4" to 1/2"
- LS adapter (Open cartridge adapter for typical 1/2" microphones)
- System cable

Accessories (optional)

Reference standards (recommended)

½" condenser microphone cartridge type LS1P or WS1P with amplifier

LS adapter (open grid for WS2P Microphone)

Optional calibration adapter

Calibration adapter for surface microphones



▲ Application example: Calibration of a typical measuring microphone using the SQ-4.2



▲ Application example: Calibration of a typical sound level meter using the SQ-4.2