

## **SQ-4.2**

### **Electro-Acoustic Coupler**



### **OB** 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

### **9** Features

- true pressure chamber calibration of ½" microphones
- ✓ calibration of dosimeters (diameter ½")
- calibration of measuring microphones (capacitor and electrets microphones ½" and ¼" with adapter)
- 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

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## 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	$\frac{1}{2}$ " microphones and $\frac{1}{4}$ " 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.

### $\frac{1}{2} \equiv$ System Components

- ✓ SQ 4.2 active electro-acoustic coupler
- power amplifier, including power plug and plug adapter
- microphone and sound level meter fixture
- Accessories (optional)

### Reference standards (recommended)

1/2" 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 sound level meter using the SQ-4.2

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- ✓ microphone adapter ¼" to ½"
- LS adapter (open cartridge adapter for typical 1/2" microphones)
- ✓ system cable