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
- ✓ for ½" and ¼" capsule devices

Selected Data

- ✓ high sound pressure level:
  - 114 dB: 10 Hz … 20 kHz
  - 148 dB: 16 Hz … 5 kHz
- ✓ low distortion over the entire frequency range: < 0.3 % (THD)

Features

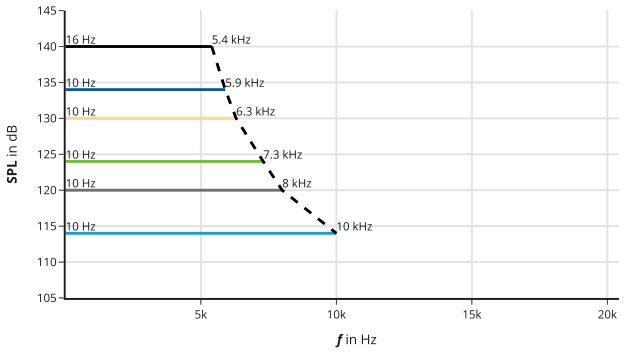
- ✓ innovative, compact design
- ✓ rotary clamp closures ensure precise and efficient alignment and sealing of sensors
- ✓ modular sealing configuration to satisfy individual test specimen requirements
- ✓ fully symmetric electro-acoustic topology ensuring a more uniform sound field for reliable results
- ✓ standard photo thread compatible mounting for various arrangements

Technical Data

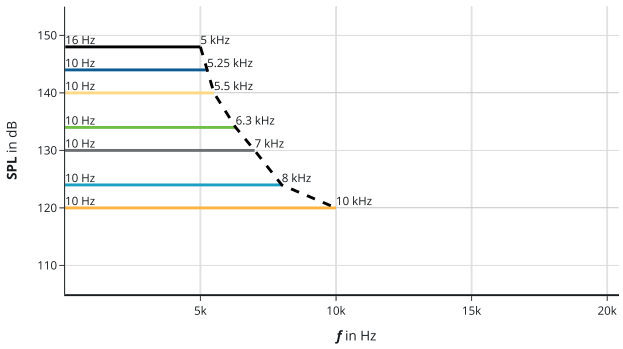
Sound field	Pressure chamber
Frequency range	10 Hz…20 kHz
Max. electrical power of sound source	2.4 W
Distortion factor at 94 dB	< 0.3 % (THD)
Devices under test (DUTs)	½" and ¼" microphone capsules
Maximum sound pressure level [1)]	10 Hz…20 kHz 114 dB
	16 Hz…5 kHz 140 dB…148 dB
Dimensions (H × W × L)	60 mm × 60 mm × 42 mm (2.4 in × 2.4 in × 1.7 in)

All specifications are at room temperature unless otherwise specified. [1)] Depending on frequency range, DUT type and amplifier.

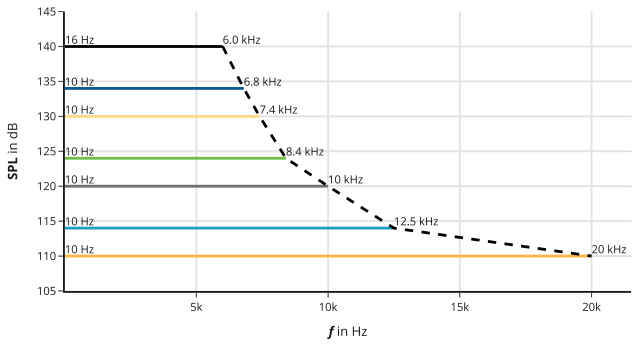
Performance



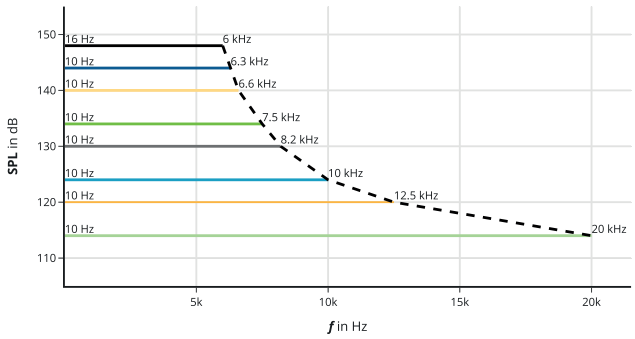
▲ *Standard amplifier and both capsules with protection grid*



▲ *Maximum performance with optional amplifier and both capsules with protection grid*



▲ *Standard amplifier and both capsules LS-adapted*

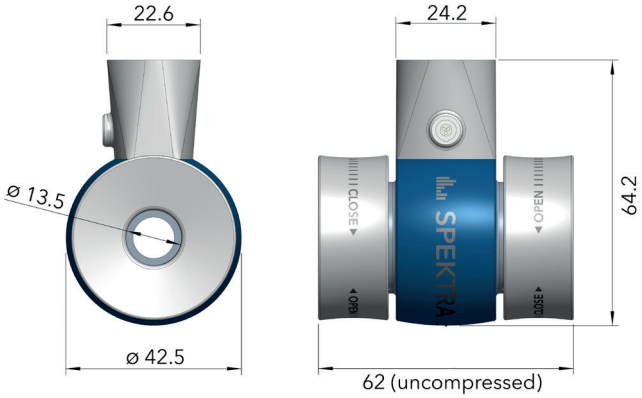


▲ *Maximum performance with optional amplifier and both capsules LS-adapted*

System Components

- ✓ SQ-6 electro-acoustic coupler
- ✓ standard power amplifier, incl. power supply
- ✓ O-rings and spacers for various ½" and ¼" microphone capsules
- ✓ adapter for 1/4" microphone capsules
- ✓ table tripod with 360° ball head, 3 working heights
- ✓ LS adapter (for WS2P microphones)
- ✓ system cable and transport case

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



Accessories (optional)

- ✓ reference standards (recommended)
- ✓ ½" condenser microphone capsule type LS2P or WS2P with amplifier
- ✓ fixture for sound level meters or heavy microphones
- ✓ spacer kit for intensity probes

System integration

The **SQ-6** acoustic coupler from SPEKTRA can be easily integrated into a **CS Q-LEAP™** system solution. With the HERO™ controller, various exciters and a software with extensive functions, we guarantee an efficient workflow for your individual test and calibration tasks.