



### SoundConnect™

#### Microphone Power Supply and Conditioning Amplifier



SoundConnect

SoundConnect is a microphone power supply and amplifier designed for use with the Listen SCM microphone and also compatible with reference microphones from other manufacturers including B&K and GRAS. Its switchable polarization voltage (0, 28, 200V) allows it to be used with both traditional and pre-polarized versions of these microphones.

SoundConnect extends the dynamic range of your measurement system by as much as 80 dB from 2.5  $\mu$ Vrms to 50 Vrms. This offers a better signal to noise ratio for your measurements and therefore greater accuracy. It also offers two signal attenuation settings to avoid clipping with high-level signals.

A stepped level indicator simplifies gain-setting by offering clear visual feedback of the signal level. Cascaded attenuator and amplifier stages ensure amplification linearity with a minimum of noise and distortion. This is particularly useful for measuring low sensitivity microphones, self-noise, and transducer distortion.

SoundConnect features a LEMO input connector, making it compatible with most measurement microphones. It also

has a BNC line in, a BNC output, and an RCA output, simplifying connectivity to a SoundCheck system. Its housing is a rugged all-metal construction that can be used in either a horizontal or vertical orientation, making it suitable for harsh production environments as well as the R&D laboratory.

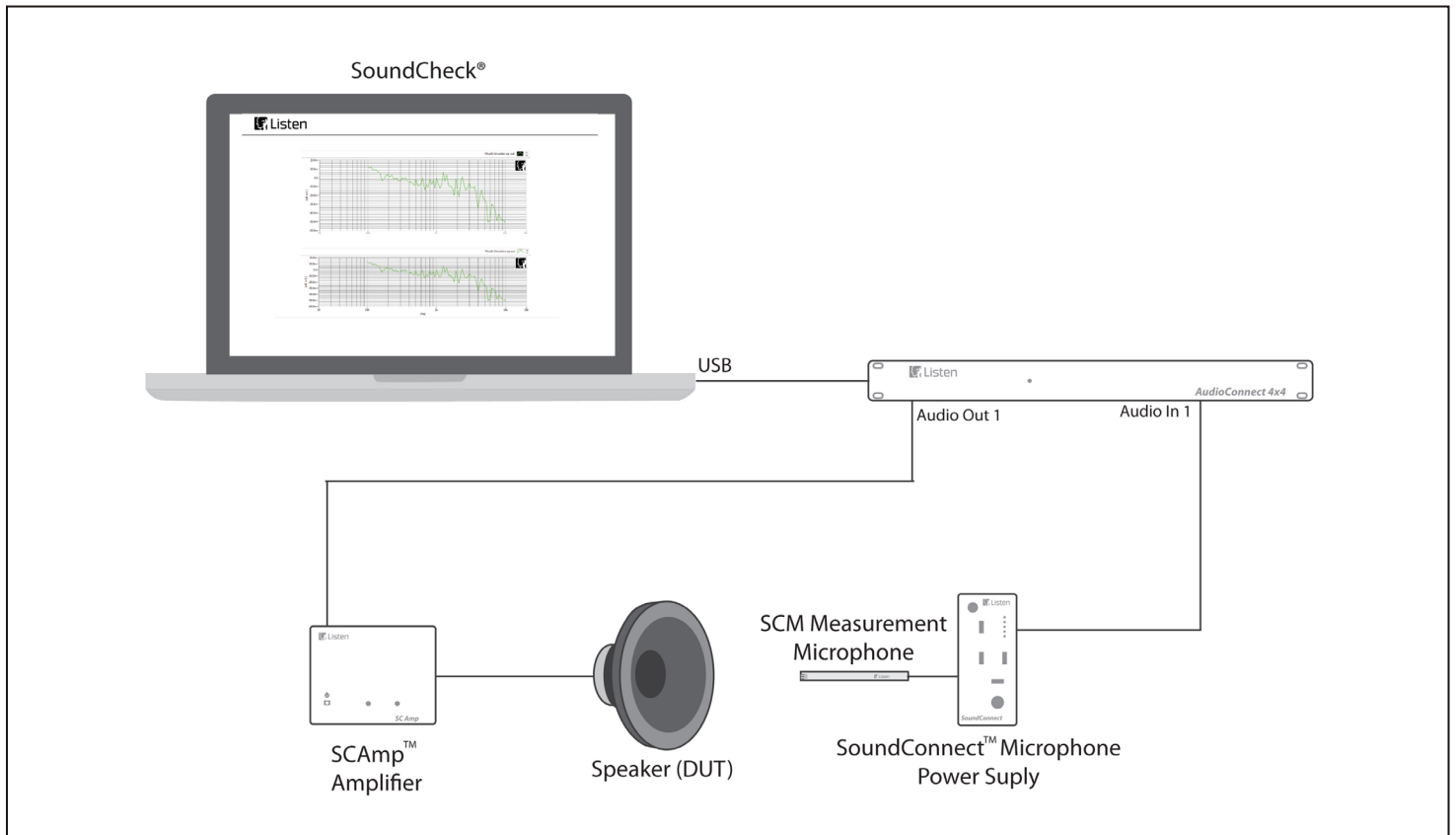
SoundConnect is made in the U.S.A. and is designed to UL and CE requirements.

#### Feature Overview

- Cost effective
- Simple to use
- Compact and rugged
- BNC and LEMO connectors for compatibility with wide range of microphones
- Full performance from Brüel & Kjær & compatible microphones and preamplifiers

## SoundConnect™ (cont.)

### Setup Diagram



*Loudspeaker test setup using SoundConnect*

### Specifications

Input Connectors: BNC and LEMO

Output Connectors: BNC on front panel in parallel with RCA phono on rear panel

Frequency range: 20 Hz to 100 kHz ( $\pm 0.1$  dB) (-3 dB at 5 Hz and 200 kHz)

Gain: -20 to 60  $\pm 0.2$  dB in steps of 20  $\pm 0.1$  dB

Preamplifier supply: 120V @ 2mA single or  $\pm 14$ V dual

Input Noise:  $<1.8\mu\text{Vrms}$  (A-weighted),  $<3.0\mu\text{Vrms}$  (20 to 20 kHz), @ 20 to 60 dB

Total Harmonic Distortion:  $<0.003\%$

Microphone polarization voltage: 0, 28, 200 V  $\pm 1\%$ , Stability better than 0.5% for  $\pm 10\%$  variations in mains-voltage

Input impedance: 1 M $\Omega$

Output impedance: 600  $\Omega$

Output attenuator: 0 dB (7.07 Vp), -8 dB (2.82 Vp), -14 dB (1.41 Vp)  $\pm 0.1$  dB

Peak Level Meter: Indication at -20, -10, 0 dB, and overload relative to selected output range  $\pm 0.5$  dB

Power Requirements: 115/230 VAC  $\pm 10\%$  switchable, 50 – 60 Hz, detachable IEC power cord

Dimensions: 5.5" H (139.7 mm), 2.5" W (63.5 mm), 7.5" D (190.5 mm)

Weight: 2 lb. (910 g)

Operating Temperature: 0° to 35° C

NOTE: Specifications are subject to change. Please contact Listen for current information or questions.