

SV 30A & SV 31 Acoustic Calibrators

The SV 30A - two levels acoustic calibrator and the SV 31 - one level acoustic calibrator are the State of the Art instruments. The design of both calibrators is based on the dedicated 1/2" condenser microphone and microprocessor controlled signal source including

digital static pressure and temperature compensation. These both features assure excellent stability of the calibration levels and their frequency. The SV 30A and SV 31 calibrators offer exceptional price versus performance ratio on the world market.

FEATURES

- Type 1 sound calibrator IEC 60942:2003
- Frequency 1 kHz
- 94 dB or 114 dB levels (SV 30A)
- 114 dB level (SV 31)
- 1/2" internal reference condenser microphone
- Microphone presence detection
- Built-in temperature and static pressure compensation
- Automatic power on/off
- Dimensions 65 x 65 x 70
- 2 x AAA batteries
- Hand held, light weight and robust case (only ca 300 grams including batteries)
- Easy in use



SV 30A



SV 31

TECHNICAL SPECIFICATIONS

Calibration signal parameters

Sound Level Pressure (SPL)	114 dB or 94 dB (SV 30A only) with respect to 20 µPa in reference condition
Accuracy	IEC 60942:2003 standard, Type 1
SPL accuracy	± 0.3 dB
Frequency accuracy	± 0.2 %
Total Harmonic Distortion (THD)	less than 0.25 % for 94 dB level and less than 0.75 % for 114 dB level

Reference conditions

Ambient temperature	23 °C
Atmospheric pressure	101.3 kPa
Humidity	30 % ÷ 80 % RH
Effective microphone load volume	250 mm ³ for microphone type B&K 4134

General

Effective load volume sensitivity	0.00027 dB / mm ³
Level stabilisation time	typically 7 seconds, maximum 10 seconds
Calibrated microphones	1/2" and 1/4" with SA 30 adapter
Storage temperature range	-25 °C ÷ +70 °C
CE classification	EMC: EN 50081-1, EN 50082-1 Safety: EN 61010-1:2001

Working conditions

Temperature range	from -10 °C to +50 °C	(related SPL error ≤ ±0.15 dB)
Atmospheric pressure range	from 65 kPa to 108 kPa	(related SPL error ≤ ±0.1 dB)
Humidity range	from 25 % to 90 % RH	(related SPL error ≤ ±0.05 dB)

Power supply

Battery type	two LR03 (IEC) / AAA (ANSI) alkaline batteries
Continuous operating time	40 hours for 94 dB level, 30 hours for 114 dB level
Stand-by period	around two years (auto switch ON / OFF)
Minimal voltage requirements	2.1 V

Overall weight and dimensions

Weight	305 grams including batteries
Dimensions	65 x 65 x 70 millimetres

Continuous product development and innovation are the policy of our company. Therefore, we reserve the right to change the specifications without prior notice.



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