SV 33A, SV 34A, SV 35A Acoustic Calibrators

Is my result correct? The only way to be sure that you can answer 'yes' to this questions is to perform an acoustic calibration using a calibrator that fully conforms to current standards. The norms and standards impose the requirement to calibrate the measurement channel before each measurement or measurement session and after the measurement as well for result verification purposes. If you don't perform these basics checks then what do your results actually mean? An acoustic calibrator is a device which produces an acoustic pressure of defined level and frequency. In other words, an acoustic calibrator is a template of acoustic pressure. With the help of such a reference template we can check the accuracy of the measurements performed with the sound level meter and adjust it if a drift error in sensitivity is indicated.

The accuracy of acoustic calibrators used for the calibration of the measurement path should match the class of sound level meter. Depending on the instrument's performance Class 1 or Class 2 calibrators are used. A sound level meter is calibrated correctly only if the measurement error is within the allowed range of tolerance defined by the standards for the meter of a given class (defined by IEC 61672: 2002).

Unlike many others, the Svantek calibrators feature a robust housing that gives the comfort of a secure grip to the user. The interior design of our acoustic calibrators is based on the reference microphone and microprocessor controlled signal source including digital static pressure and temperature compensation. Due to the feedback regulation control loop our calibrators do not require any adjustments by the user and operate over a wide range of ambient temperature and humidity assuring excellent stability of the calibration levels and their frequency.

Each acoustic calibrator is provided with a statement of the calibration which allows the user to be certain that their instruments will measure correctly.

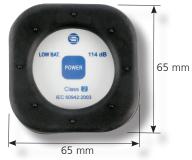
Features

- SV 35A & SV 33A class 1 sound calibrators meeting IEC 60942:2003
- SV 34A class 2 sound calibrator meeting IEC 60942:2003
- Frequency 1 kHz
- 94 dB or 114 dB levels (SV 35A)
- 114 dB level (SV 33A, SV 34A)
- Built-in reference microphone
- Microphone presence detection (SV 35A)
- Built-in temperature and static pressure compensation
- Automatic power on/off (SV 35A)
- Automatic power off (SV 33A, SV 34A)
- Dimensions 65 x 65 x 70 mm
- Robust housing



SV 33A, SV 34A, SV 35A Technical Specification

	SV 35A	SV 33A	SV 34A
Calibration signal parameters:			
	114 dB or 94 dB	114 dB	114 dB
	1000 Hz		1000 Hz
	Class 1		
	± 0.3 dB		
Frequency tolerance		± 0.2 %	
Total Distortion	< 0.50 % for 94 dB	< 0.75 %	< 0.75 %
	< 0.75 % for 114 dB level		
General information:			
Effective load volume sensitivity	0.00027 dB / mm ³	0.00027 dB / mm ³	0.00027 dB / mm ³
Level stabilisation time	typically 15 s, max 30 s	typically 15 s, max 30 s	typically 15 s, max 30 s
	1/2" and 1/4" with SA 30 adapter		
	-25 °C ÷ +70 °C		
CE classification	EN 61010-1: 2010		
	EN 61326-1:2013	EN 61326-1:2013	EN 61326-1:2013
	EN 55022:2010	EN 55022:2010	EN 55022:2010
	EN 60942:2003	EN 60942:2003	EN 60942:2003
Working conditions:			
Temperature range	from -10 °C to +50 °C	from -10 °C to +50 °C	from 0°C to +40 °C
	(related SPL error $\leq \pm 0.15$ dB)	(related SPL error ≤ ±0.15 dB)	(related SPL error $\leq \pm 0.2 \text{ dB}$)
Atmospheric pressure range	from 65 kPa to 108 kPa	from 65 kPa to 108 kPa	from 65 kPa to 108 kPa
	(related SPL error $\leq \pm 0.10 \text{ dB}$)	(related SPL error ≤ ±0.10 dB)	(related SPL error $\leq \pm 0.10$ dB)
Humidity range	from 25 % to 90 % RH	from 25 % to 90 % RH	from 25 % to 90 % RH
	(related SPL error $\leq \pm 0.05$ dB)	(related SPL error ≤ ±0.05 dB)	(related SPL error $\leq \pm 0.05$ dB)
Reference conditions:			
Ambient temperature	23 °C	23 °C	23 °C
Atmospheric pressure	101.3 kPa	101.3 kPa	101.3 kPa
Humidity	30 % ÷ 80 % RH	30 % ÷ 80 % RH	30 % ÷ 80 % RH
Effective microphone load volume	250 mm ³ for microphone	250 mm ³ for microphone	250 mm ³ for microphone
	type B&K 4134	type B&K 4134	type B&K 4134
Power supply:			
Battery type	2 x LR03 (IEC) / AAA (ANSI)	2 x LR03 (IEC) / AAA (ANSI)	2 x LR03 (IEC) / AAA (ANSI)
	alkaline batteries	alkaline batteries	alkaline batteries
Continuous operating time	40 hours for 94 dB level,	30 hours	30 hours
	30 hours for 114 dB level		
Stand-by period	around two years	around two years	around two years
Minimal voltage requirements	2.1 V	2.1 V	2.1 V





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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