

SOUND LEVEL CALIBRATOR KA-10 Instruction Manual

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• Static pressure:

• Conforms to requirements of the standard:	EN 60942 class II
Microphone types:	1", 1/2", 1/4", with adapters
	R10-1/2" i R10-1/4"
• Nominal sound pressure level:	94.0dB
• Accuracy of SPL under reference	
conditions:	±0.5dB
• Reference conditions:	
Temperature:	23°C
Static pressure:	101.325kPa
Relative humidity:	50%
• Frequency:	1000Hz
• Accuracy of output signal frequency:	±1%

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• Load:	BK 4134 (250mm ³ with adapter R10-1/2")
• Total harmonic distortion (THD):	< 3%
• Power supply:	9V battery (IEC: 6LR61)
• Dimensions:	
Diameter:	41mm
Width:	120mm
• Weight:	240g (with battery)
AMBIENT CONDITIONS	
• Temperature:	0° C to +40°C
Influence:	<±0.010479dB/°C

	Influence:	<±0.011831dB/kPa
٠	Relative humidity:	$\leq 90\%$
	Influence:	< 0.01dB
٠	Effective load volume:	$0 - 1.5 \text{cm}^3$
	Influence:	$< \pm 0.00003947$ dB/mm ³

OPERATION

- Insert the microphone into the calibrator's microphone cavity; ensure that is fully inserted. If calibrated microphone has diameter other than 1", use proper adapter (R10-1/2" for ½" microphone, R10-1/4 for ¼" microphone). Adapters are designed to ensure, that effective load volume does not change more than ±100mm³.
- Turn on the calibrator (time of stabilization is about 10 seconds).

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- Adjust the sensitivity of measuring equipment, as explained in it's instruction manual. During adjustment of equipment with free field microphones, equipment indication should be set to 93.6dB (for 1" microphone), 93.85dB (for 1/2" microphone) or 94.0dB (for 1/4" microphone).
- Adjustment should not be done, when environmental noise exceeds 85dB.
- Turn off the calibrator.

RECOMENDATIONS FOR INSTRUMENT USE

Generated signal lasts in tolerance limits only when power signaling diode lights. If diode does not light, after turning on the calibrator, the battery should be replaced.

Discharged battery should be removed from calibrator. If instrument will not be used by long time, the battery should be also removed.

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To replace battery, twist off bottom part of calibrator housing.

CE MARKING AND CONFORMANCE TO EU COUNCIL DIRECTIVES

The product described in this instruction conforms to following EU council directives:

89/336/EEC Electromagnetic compatibility



The conformance to above-mentioned requirements is confirmed by CE mark.



This product cannot be thrown away with household waste. Deposit the product in an authorized electrical and electronic waste collection area for recycling. Contact local Municipal Bureau or nearest waste disposal company to get more detailed information.

MAINTENANCE AND REPAIR

KA-10 Sound level calibrator requires no special maintenance treatments. All repairs of the instrument are performed by the manufacturer:

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