

Technical Data Sheet

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level

Sound level meter

CE

SDA

Kimo SDA Sound Pressure Level Decibel Meter



Technical features

Microphone

Microphone.....prepolarised electret condenser.

Nominal sensitivity.....20 mV/Pa .

• Sound level meter

•	Souna level meter	
	Standards	.IEC 61672-1 Class 2 /
		IEC 61651 Class 2 / IEC 60804 Class 2
	Measured parameters	.L _A
	Other displayed parameters	$L_{AFmax},L_{AFmin},L_{ASmax},L_{ASmin}$
	Frequency weighting	.A
	Measuring range	.30-130 dB
	Time weighting	.slow, fast
	Overload indicator	.detected at the peak sound-pressure level
	Backlighted display	.graphic 128x64 pixels.
		Adjustable contrast.
	Resolution	.0,1 dB
	Reference direction	.microphone axis
	Reference range	. 30 - 130 dB
	Reference level	

Environmental effects

Reference frequency......1000 Hz

n 30
6HR
804

Power supply

rowei suppiy		
Batteries	3 AAA or rechargeable batteries	
	(Rq: rechargeable batteries must not be recharged inside the instrument)	
Battery life (at 20°C)	30 hours min (with alkaline batteries)	

Output



DO NOT PLUG USB cable. The output **is not USB** compatible, the plug is maintenance- and optional accessory-specific.



Description

The sound level meter **SDA** is reliable, easy to use and in accordance with metrology requirements. SDA can measures :

- Sound-pressure level
- Sound-pressure level L_A as per two weighting times FAST or SLOW

To be used for stable or slightly fluctuating sound sources. Sound-pressure level ($\mathbf{L}_{\mathbf{A}}$) unit is **dBA** and $\mathbf{L}_{\mathbf{Amin}}$ and $\mathbf{L}_{\mathbf{Amin}}$ values are saved.



CTL 100

Automatic check of sound level meter

Principle of automatic check

Initial check

To be carried out at the delivery, when instrument is new and calibrated (laboratory or manufacturer) or after periodic calibration procedure, or after repair.

Frequent check

To be carried out **BEFORE**:

- each measurement dataset

To be carried out **AFTER**:

- an impact applied on the instrument,
- storage in extreme environment (high temperature, wet environment etc...)
- a long period of storage

Working principle

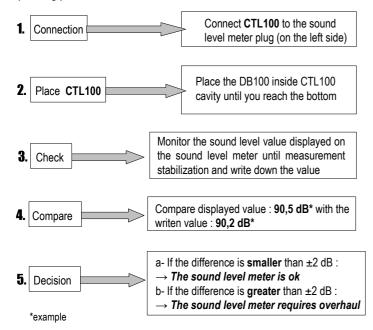
CTL100 gives a stable acoustic signal 90 dB at 1000Hz, automatically delivered once plugged to the sonometer. The user shall write down the LA value, fast (F) or slow (S) displayed on the sound level meter.

The sound level meter value and the CTL100 reference value must not exceed 90 dB ± 2dB difference.

In case of greater difference, the sound level meter shall be returned to **Customer Service Department.**

Note: The sound level meter can not be calibrated with the CTL100. An acoustic calibrator must be used to calibrate sound level meters or the instrument can be sent to specialized laboratories or Customer Service Department. CTL100 works only for

Operating procedure:





Presentation

The automatic check consists in comparing sound level meter value with level produced by CTL100. The principle allows to periodically check sound level meter performance, especially the microphone performance which is the sensing element of the instrument.

CTL100 can not replace an acoustic calibrator which must be used for sound level meter calibration.

Technical features

Emission

Frequency	1000 Hz ± 5%
Level	
Stability	< 0.5 dB

Automatic power supply

When being connected to the sound level meter

Environment

Operating temperature	from +5 °C to + 40 °C
Pressure	. 1013 hPa ± 10%
Storage relative humidity	80 % RH max.
CE labelling	As per 89/336/CEE guideline

Dimensions

Dimensions (Without cable)	140 x 28 x 25 mm
Weight	50 g

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