

Technical Data Sheet

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

Sound level meter **SDA**



TECHNICAL FEATURES

Microphone

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

Microphone...... prepolarised electret condenser.

Sound 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	
Reference frequency	. 1000 Hz

Environmental effects

Storage relative humidity	95 % RH max.
Storage temperature	from 0 °C to + 50 °C.
Operating temperature	. from -10 °C to + 50 °C.
Humidity dependence	in accordance with standard between 30 and 90%RH, reference being at 65%HR and 40°C.
	According to class 2 requirements IEC 61672-1 / IEC 61651 / IEC 60804 As per 89/336/CEE guideline

Power supply

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 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 \mathbf{dBA} and $\mathbf{L}_{\mathbf{Amax}}^{}$ and L_{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

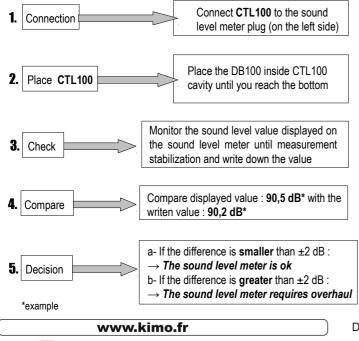
 $\label{eq:ctl100} \begin{array}{l} \mbox{gives a stable acoustic signal 90 dB at 1000Hz, automatically delivered once plugged to the sonometer. The user shall write down the LA value, fast (F) or slow (S) displayed on the sound level meter. \end{array}$

The sound level meter value and the CTL100 reference value must not exceed 90 dB \pm 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 **DB100**.

Operating procedure :





ſF

*Sound level meter supplied separately

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

	sion

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 cal	ble)140 x 28 x 25 mm
Weight	50 g

Distributed by :



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