

Sound level meter

testo 816-1 – Sound level measurement with integrated data storage

Sound level measurement acc. to IEC 61672-1 class 2 and ANSI S1.4 Type 2

Frequency weighting A and C

Integrated data storage for up to 31000 measurement values

Software for data management and long-term measurement

Switchable time weighting Fast/Slow

Bar graph display

Backlit display

AC and DC output for the connection of other instruments



dB

The testo 816-1 is ideal for sound level measurements at workplaces, in industrial and production halls, and in public places. With the touch of a button, the measuring instrument can be switched from Slow (1 sec.) to Fast (125 ms). It is also possible to switch between the frequency weighting characteristic curves A and C and vice versa, also at the touch of a button. Characteristic curve A corresponds to the sound pressure sensitivity of the human ear, while characteristic curve C can evaluate low-frequency components of a noise.

The integrated data memory allows the storage of over 30,000 measurement values in the instrument, which can be managed using the convenient PC software (download from www.testo.com). In addition to this, the software allows online measurements over a longer period to be carried out. With the optional sound calibrator and the adjustment accessory included with it, the testo 816-1 can be re-calibrated on site.

Technical data / Accessories

testo 816-1

testo 816-1, sound level meter incl. microphone, wind protection, PC software (in English), connection cable, manual and batteries in system case

Part no. 0563 8170



Technical data sound level calibrator

Battery type	9V block battery
Battery life	40 h
Accuracy	±0.5 dB in accordance with Class 2 to IEC 60942

Sound pressure level: 94 dB/104 dB, switchable
 Frequency: 1000 Hz
 Also suitable for ½ and 1 inch microphones by other manufacturers

Technical data testo 816-1

Measuring range	30 to 130 dB
Frequency range	20 Hz to 8 kHz
Accuracy ±1 digit	±1.4 dB (under reference conditions: 94 dB, 1 kHz)
Resolution	0.1 dB
Frequency weighting	A / C
Microphone	½ inch
Measuring rate	0.5 s
Dynamic range	100 dB
Data storage	Internal (in instrument): Single value memory: 99 data sets Measurement series memory: 31,000 data sets External (via PC software): Online measurement: max. 99,999 data sets
Recording rate	Offline measurement: min: 1 sec, max: 1 min Online measurement: min: 0.1 sec, max: 30 sec
Operating temperature	0 to +40 °C
Storage temperature	-10 to +60 °C
Battery type	4 x Type AA batteries
Weight	390 g
Dimensions	272 x 83 x 42 mm
Time weighting	FAST 125 ms / SLOW 1 sec
AC/DC output	AC: 1 V RMS at full scale DC: 10 mV/dB

Accessories for measuring instrument

Part no.

Calibrator, for regular calibration of testo 815, testo 816-1	0554 0452	
PC software testo 816-1 (download from www.testo.com)	0501 8170	
ISO calibration certificate; sound level calibrators and pistonphones on two fixed sound pressure values	0520 2810	
ISO calibration certificate pressure Pressure chamber calibration – calibration at the measuring points 94 dB/1000 Hz and 114 dB/1000 Hz for up to three frequency evaluations (A, C and Z)	0520 2812	
Free-field calibration – calibration of the amplitude frequency response in the free field at fixed frequencies in third interval. Possible frequency range 125 Hz to 20 kHz.	0520 2812	
Free-field and pressure chamber calibration – calibration of the amplitude frequency response at fixed frequencies in third interval. Possible frequency range 31.5 Hz up to 20 kHz.	0520 2812	

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