

Sound Level Meter/Logger

testo 816-1 - Sound Level Meter with Integrated Data Storage

Meets ANSI S1.4 Type 2 and IEC 61672-1 class 2 performance standards

Integrated data storage for up to 31,000 readings

Data management and analysis with included software

Fast/Slow switchable time weighting

Backlit numerical and bar graph display

AC and DC output compatibility

Frequency weighting A and C



dB

The testo 816-1 is ideal for sound level measurements at workplaces, in commercial, and public areas. With the touch of a button, the 816-1 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. 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 store allows the storage of over 31,000 readings. Then download them for additional data analysis and management. The optional sound calibrator allows for easy on-site calibration.

Technical Data / Accessories

testo 816-1

testo 816-1, Sound Level Meter
incl. microphone, wind protection,
software, connection cable, manual
on CD and batteries in system case

Part no. 0563 8170



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	approx. 31,000 readings
Operating temperature	32 to 105 °F (0 to +40 °C)
Storage temperature	15 to 140 °F (-10 to +60 °C)
Battery type	4 x AA batteries
Weight	13.8 oz (390 g)
Dimensions	10.7 x 3.3 x 1.7 in (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

Technical data sound level calibrator

Battery type	9V block battery
Battery life	40 h
Warranty	2 years
Accuracy	±0.5 dB in accordance with Class 2 to ANSI S1.4 Type 2

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

Accessories for measuring instrument

Part no.

Sound Calibrator, for regular calibration of testo 815, testo 816, testo 816-1	0554 0452
ISO calibration cert./sound pressure; calibration point 94 dB at different frequencies	0520 0111
ISO calibration certificate sound pressure calibrators	0520 0411