

Sound level meters



Devices for controlling the sound level. With these portable sound level meters, you can carry out measurements quickly to gain control of a situation but also scheduled control measurements are possible. Some models have an internal memory. Long-term recordings of sound sources can be performed with these devices and the results can be analysed on your PC or laptop later.

The measurement of noise / sound is becoming increasingly important in all areas, especially when using it as a mobile device to evaluate the stress factor in offices or traffic noise, but also in the private sector where more and more people suffer from noise from neighbours or tenants. All the sound level meters are available with microphone extensions, tripods, sound calibrators and ISO certificates. All sound level meters are calibrated. However, sensor drift makes recalibration necessary. Our technicians are pleased to advise you on the subject of measurement technology as well as on any products.

PCE-MSM 4

Industrial Meter for Starters

- 2 measurement ranges: low & high / analogue outp.
- A and C frequency weighting
- frequency range 31.5 Hz ... 8 kHz
- FAST and SLOW time evaluation
- MAX / MIN HOLD function
- norm IEC 651 type II



TECHNICAL SPECIFICATIONS

Accuracy	±1.4 dB
Frequency range	31.5 Hz...8 KHZ
Dynam. range	50 dB
Measuring level range	Lo: 30 dB...80 dB Med: 50 dB...100 dB Hi: 80 dB...130 dB Auto: 30 dB...130 dB
Resolution	0.4 dB
Accuracy	±1.5 dB (ref. 94 dB, at 1 kHz)
Sampling rate	2 x/s
Frequency	31.5 Hz .. 8 kHz
Weighting	A,C
Microphone	1/2 inch (12,7 mm) electret condenser microphone
Output	analogue, AC / DC, 3.5 mm jack
Power supply	9 V block battery
Battery life	at least 30 hours
Operating conditions	-20°C ... +60°C, <90 % RH
Storage conditions	-20°C ... +60°C, <75 % RH
Dimension	300 x 90 x 40 mm
Weight	ca. 350 g
Display	4-digit LC display
MAX	maximum data hold
MIN	minimum data hold

Over	input is more then upper limit of range
Under	input is less than lower limit of range
Fast	fast response
Slow	Slow response
Time	display current time (Hour-Minute-Second)
Date	display current date (Year-Month-Day)

INCLUDES

Sound level meter, windscreen, screwdriver, 9V battery, case, manual

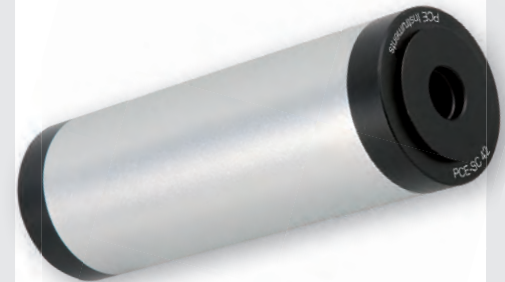
ITEM NO.	ITEM
K-PCE-MSM 4	sound level meter



PCE-SC 42

Acoustic Calibrator

- Lightweight yet rugged design
- Enables recalibration or correction of sensor drift over time
- Perfect accessory to type II / class 2 sound level meters
- Includes factory test certificate with measurement values (ISO calibration certificate available for an additional fee - see accessories)



TECHNICAL SPECIFICATIONS

Frequency	1 kHz / ± 0.1 %
Sound pressure levels	94 decibels (dB) and 114 dB
Accuracy	± 0.3 dB (at 20 °C / 68 °F and 760 mm Hg / 101325 Pa)
Microphone	1/2 „and 1„microphone opening
Standard	IEC 942 class 2
Power supply	1 x 9 V battery (block, NEDA 1604, Burgess 2U6 or similar)
Battery life	Approx. 100 hours
Environmental condit.	-10 ...+50 °C / +14 ...+122 °F
Storage conditions	-40 ... +65 °C / -40 ... +149 °F
Altitude effect	Reduction of approx. 0.1dB per altitude gain from 2000 ft from the sea level up to 12000 ft
Dimensions/ Weight	48 x 48 x 138 mm / ca. 250 g

INCLUDES

Acoustic calibrator, 9 V battery, factory test certificate with measurement values, user manual

ITEM NO.	ITEM
K-PCE-SC 42	acoustic calibrator

OPTIONAL ACCESSORIES

K-CAL-PCE-SC	ISO calibration certificate
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Sound level meters

PCE-EM 886

Multimeter (5 in 1)

- measures sound, light, external temperature (via K-type thermocouple), ambient temperature and humidity
- 3 4/5- digit LC display with backlight
- optional infrared temperature adaptor for non-contacting temperature measurement
- integrated auto-ranging multimeter



TECHNICAL SPECIFICATIONS

Sound level meter	
Measurement range	35 ... 100 dB
Resolution	0.1 dB
Accuracy	±5dB (at 94, 1kHz sinusoidal sig.)
Frequency range	30 Hz ... 10 kHz
Frequency weighting	C
Time evaluation	FAST
Microphone	electrical capacitor microphone
Light meter	
Measurement range	4000 / 40000 lux (lux range of 20000 = display x10)
Overload	"OL" (you must select a meas. range which is 1 digit higher)
Accuracy	±5 % of meas. value + 10 digits
Reproducibility	±2 %
Sensor	silicon photodiode with filter
Moisture meter	
Measurement range	33 ... 99 % RH
Resolution	1 %
Accuracy	±3 % of meas. value +5 % RH
Thermometer	
Measurement range	0 ... +50 °C
Resolution	0.1 °C
Accuracy	±3 % of meas. value ±3 °C

K type thermocouple

Measurement range	-20 ... +400 °C / -20 ... +1,300 °C
Resolution	0.1 °C / 1 °C
Accuracy	±3 % meas. value +3 °C

General

Display	LCD, 3 4/5 digits
Overload	"OL"
Sampling rate	approx. 3 times per second
Accuracy	±5 °C (at +23 °C / <70 % RH)
Power supply	1 x 9 V battery
Operating cond.	0 ... +40 °C / <70 % RH
Dimensions of meter	170 x 78 x 48 mm
Weight	335 g

INCLUDES

Multimeter, K type temperature sensor, test leads, 9V block battery, instruction manual

ITEM NO.

ITEM

K-PCE-EM 886 multimeter

OPTIONAL ACCESSORIES

K-IR-82 infrared temperature adapter

PCE-MSV 10

Portable sound camera and sound pressure meter

- measurement range of 30...130 dBA
- frequency range of 20...20000 Hz
- real-time image and video recording
- 10" full-colour tablet-style screen
- software for visual sound analysis



TECHNICAL SPECIFICATIONS

Measurement range	30 ... 130 dB
Frequency range	20...20000 Hz
Measurement modes	Indication of loudest source of noise, indication of transients
	Automatic Filter
Focal range	Automatic: 0.2 ... 5 m / 0.7 ... 16.4 ft
	Manual: 0.2 ... 50 m / 0.7 ... 164 ft
Display size	254 mm / 10 in
Memory	1 GB RAM
Battery life	Continuous operation: 4 hours
	Intermittent operation: 15 hours
Dimensions	300 x 250 x 40 mm / 11.8 x 9.8 x 1.6 in
Weight	Approx. 980 g / 2.2 lbs

INCLUDES

Sound level meter, sound measuring microphone class 2, stereo headset, mains adaptor, case, manual

ITEM NO.

ITEM

K-PCE-MSV 10 sound level meter

PCE-322A

Sound Meter for Long-Term Meas. with Memory & Softw.

- USB interface / real-time monitoring via PC
- MIN / MAX function; display with bar graph
- pulses, FAST & SLOW time evaluation
- indication when values are exceeded or fallen below
- frequency weighting A & C
- norm IEC61672-1 class 2



TECHNICAL SPECIFICATIONS

Measurement range	low	30 ... 80 dB	medium	50 ... 100 dB
	high	80 ... 130 dB	auto	30 ... 130 dB
Resolution	0.1 dB			
Accuracy	±1.4 dB			
Frequency range	31.5 Hz ... 8 kHz			
Dynamic range	50 dB			
Time evaluation	FAST 125 ms, SLOW 1 s			
Weighting / sampling rate	A & C / 2 per s			
Display / memory	LCD with bar graph / 262000 readings			
Power supply	9V battery			
Operating conditions	-20 ... +60 °C / 10 ... 90 % RH			
Dimensions / weight	300 x 90 x 40 mm / ca. 350 g			

INCLUDES

Sound level meter, wind shield, software, USB cable, battery, mini tripod, mains adaptor, calibration screwdriver, plastic case, instruction manual

ITEM NO.	ITEM
K-PCE-322A	sound level meter

OPTIONAL ACCESSORIES

K-PCE-SC 42	sound calibrator (94 dB)
K-CAL-PCE-SC	ISO calibration certificate for PCE-SC 42
K-MIC-10-322	microphone extension cable
K-STAT	tripod

PCE-353

Sound Meter with LEQ Function / Analogue Output

- LEQ meas. mode for energy-equivalent sound level (type A)
- adjustable limit functions
- RS-232 interface for transferring data to a PC
- CE certification meets machinery directives 89/393/EWG, IEC60804, EN60651; IEC 651 type II



TECHNICAL SPECIFICATIONS

Measurement range	30 ... 130 dB (A, LEQ) / 35 ... 130 dB (C, F) / 0 ... 100 % (LN)
Resolution	0.1 dB
Accuracy	±1.5 dB
Frequency	31.5 Hz ... 8 kHz
Output	digital (RS-232) and analogue
Weighting	LP (A, C, F) / LEQ (automatic) / LN
Functions	MIN / MAX / HOLD / battery level indicator
Memory	internal memory for 30 readings
Display	LCD
Power supply	4 x batteries 1.5 V; AAA
Operating conditions	0 ... +40 °C, <80 % RH
Dimensions / weight	257 x 72 x 21 mm / 310 g

INCLUDES

Sound level meter, case, battery, calibration screwdriver, instruction manual

ITEM NO.	ITEM
K-PCE-353	sound level meter with LEQ function

OPTIONAL ACCESSORIES

K-PCE-SC 42	sound calibrator (94 dB)
K-CAL-PCE-SC	ISO calibration certificate for PCE-SC 42
K-CAL-SL	ISO calibration certificate
K-SOFT-PCE-353	software + data cable
K-NET-LUT	mains adaptor (300 mA)

Sound level meters

PCE-318

Sound Meter with Analogue Output

- meas. range from 26 dB (A) / memory for 99 values
- analogue output AC & DC / 6 ranges selectable
- frequency weighting A & C
- bar graph / norm IEC 651 type II, EN60651
- FAST & SLOW time evaluation
- MIN / MAX / HOLD functions



TECHNICAL SPECIFICATIONS

Measurement range	26 ... 130 dB in 6 ranges
Resolution	0.1 dB
Accuracy	±1.5 dB (ref. 94 dB, at 1kHz)
Frequency	31.5 Hz ... 8 kHz
Memory	99 readings (by keystroke)
Output	analogue AC & DC
Display	4-digit LCD, with bar graph
Norm	IEC 651 type II (class II)
Power supply	9 V battery
Operating conditions	-10 ... +50 °C, <90 % RH
Dimensions	264 x 68 x 27 mm
Weight	260 g

INCLUDES

Sound level meter, bag, wind shield, jack plug, calibration screwdriver, battery, case, instruction manual

ITEM NO.	ITEM
K-PCE-318	sound level meter

OPTIONAL ACCESSORIES

K-PCE-SC 42	sound calibrator (94 dB)
K-CAL-PCE-SC	ISO calibration cert. for PCE-SC 42
K-STAT	tripod
K-MIC-10-318	5m microphone extension cable

SLT

Sound Level Meter / Warning System with Display & Relay

- can be recalibrated / for long-term use / IEC 651 type II (class II)
- relay output / 3-point control output
- output 4 ... 20 mA
- programmable alarm
- adapted to the human auditory system



TECHNICAL SPECIFICATIONS

Sensor	
Meas. range	30 ... 130 dB in 3 ranges
	I. 30 ... 80 dB(A)
	II. 50 ... 100 dB(A)
	III. 80 ... 130 dB(A)
Resolution	0.1 dB
Accuracy	±1.5 dB
Weighting	A
Microphone	1/2" electret precision microphone
Cable length	1.5m
Wall mounts	included in the delivery
Norm	IEC 651 type II (class II)
Power supply	via transmitter
Operating cond.	0 ... +50 °C / max. 85 % RH
Display	
Input signal	4 ... 20 mA via transmitter
Indication	-1999 ... 9999 (1 - 3 decimal places)
Control output	3 points (Com, NO, NC)
Alarm output	relay output: 5 A / 240 VAC
Protection cl.	IP 65
Power supply	90 ... 260 ACV / 50 ... 60 Hz
Operating cond.	0 ... +50 °C / max. 85 % RH
Dimensions	approx. 92 (+0.8) mm x 45 (+0.5) mm
Weight	approx. 250 g

measuring transducer

Case	ABS plastic
Power supply	90 ... 260 ACV (max. 1.5 A)
Operating cond.	0 ... +50 °C / max. 85 % RH
Calibration	adjustable, using a grub screw
Output	4 ... 20 mA
Protection class	IP 54

INCLUDES

Sound level meter / warning system (includes sound sensor with 1.5 m cable, sound transducer, digital display, screwable wall mount), instruction manual

ITEM NO.	ITEM
K-SLT	sound level meter with display

OPTIONAL ACCESSORIES

K-PCE-SC 42	sound calibrator (94 dB)
K-CAL-SL	ISO calibration certificate
K-SLT-TRM	additional transmitter + microphone
K-SLT-MIC	additional microphone
K-CT-2012	additional display, 4 ... 20 mA
K-PCE-2622	alarm horn

PCE-EM 882

The 4 in 1 sound level meter includes sound sensor, light sensor, temperature sensor and relative humidity.

- 17 mm LCD display with 4 digits
- Holdfunction
- Auto OFF to conserve battery power
- Battery power indicator
- ABS enclosure



TECHNICAL SPECIFICATIONS

Wind speed	
Measuring range	0.5 ... 30 m/s
Accuracy	± (3 % ±0.3 d)
Measuring units	m/s, km/h, ft/min, Knot, mph
Temperature	
Measuring range	-40 ... +70 °C / -40 ... 158 ° F
Accuracy	±2 °C
Measuring units	°C , °F
Resolution	0.1 °C
Relative Humidity	
Measuring range	10 ... 95 % RH
Accuracy	± 5 % RH
Resolution	0.1 % RH
Sound level	
Measuring range	35 ... 130 dB
Accuracy	±2 dB
Resolution	0.1 dB
Frequency range	31.5 Hz ... 8 kHz
Microphone	electrical capacitor microphone
Applied standard	IEC61672-1 CLASS2
Illumination	
Measuring range	0 ... 200000 lx; 0 ... 20000 Fc
Spectral response	CIE response of a human eye
Spectral accuracy	CIE V function f1' = 6 %

TECHNICAL SPECIFICATIONS

Cosinus response	f2' = 2 %
Accuracy	± 4 % of measured value ± 0.5 % of measuring range
Sensor	Silicium photo diode with filter
General specifications	
Data Update Rate	1 x per second
Measuring functions	Maximum value (MAX), Minimum value (MIN), Data-Hold (Hold)
Automatic power-off after ca. 15 min of inactivity	
Power supply	1 x 9 V battery
Environmental cond.	-20 ... +60 °C / -4 ... 140 °F, 10 ... 90 % RH
Storing conditions	-20 ... +60 °C / -4 ... 140 °F, 10 ... 90 % RH
Dimensions	251 x 63,8 x 40 mm
Weight	350 g

INCLUDES

Sound level meter, light sensor, temperature sensor, humidity sensor, microphone protector, 9V battery, carrying case, user's manual

ITEM NO.	ITEM
K-PCE-EM 882	Sound level meter

PCE-SDL 1

USB Sound Level Meter with Memory

- USB Interface / memory capacity for 129920 values
- for all versions of Windows
- adjustable logger function / adjustable limit values
- NORM (normal) and PEAK modes
- LED indicates if values are exceeded or fallen below
- adjustable sampling rate / norm IEC61672-1 class 2



TECHNICAL SPECIFICATIONS

Measurement range	30 ... 130 dB
Accuracy	±1.4 dB
Time evaluation	FAST / SLOW
Frequency	31.5 Hz ... 8 kHz
Weighting	A, C
Requirements	Windows 2000 / XP / Vista / 7
Memory	129920 values
Sampling rate	1 s ... 24 h
Power supply	1/2 AA 3.6V lithium battery
Operating conditions	0 ... +40 °C, 10 ... 75 % RH
Dimensions	130 x 25 x 30 mm
Weight	20 g

INCLUDES

USB sound level meter, wind noise suppressor, battery, wall mount, software (in English), instruction manual

ITEM NO. ITEM

K-PCE-SDL 1 data logger

OPTIONAL ACCESSORIES

K-PCE-SC 42	sound calibrator
K-CAL-PCE-SC ISO	certificate for PCE-SC 42
K-STAT	tripod