



# User Manual

PCE-SLM 10 Sound Level Meter



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: [www.pce-instruments.com](http://www.pce-instruments.com)

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## 1 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.
- Switch off the device while it is not in use.
- Do not exhaust the maximum measurement range.
- Do not use the meter if it is no longer working properly.
- Do not use the meter in wet or damp environments.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.



## 2 Delivery contents

1 x sound level meter PCE-SLM 10

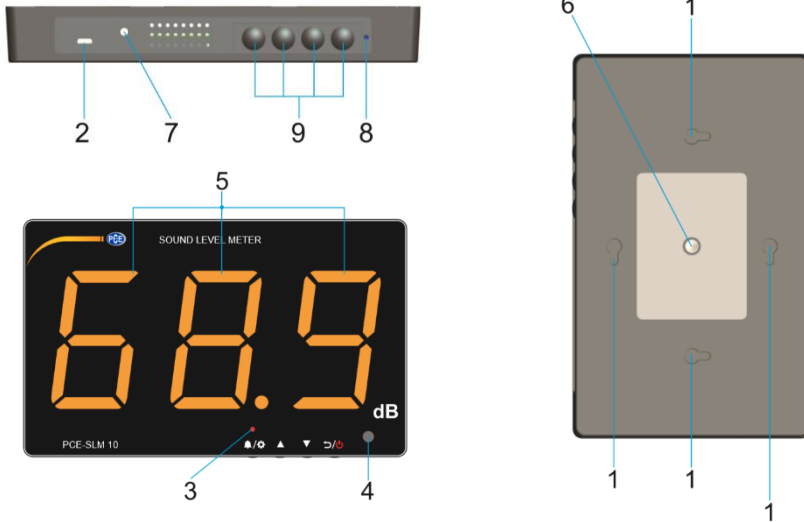
1 x micro USB cable

1 x user manual





## 3 Specifications

Measurement range	30 ... 130 dB
Accuracy	$\pm 1.5$ dB (at 94 dB and 1 kHz)
Frequency range	31.5 Hz ... 85 kHz
Frequency weighting	A
Time valuation	FAST (Fast)
Microphone	6 mm condenser microphone
Display	3 digits
Resolution	0.1 dB (<100 dB), 1 dB (>100 dB)
Alarm reminder	Display and sound
Alarm output	With alarm output
Memory	657,000 readings
Power supply	5 VDC 1 A via micro USB connection
Operating conditions	0 ... 40 °C / 10 ... 80 % RH
Storage conditions	-10 ... 60 °C / 10 ... 70 % RH
Dimensions	210 x 130 x 28 mm
Digit height	75 mm
Weight	Approx. 453 g



## 4 Device description




1. Wall mounting brackets
2. PC connection and power supply
3. Alarm LED
4. Microphone sensor
5. Display
6. 1/4 inch connection for tripod mountings
7. 3.5 mm speaker connection
8. Adjusting screw
9. Keys

Symbol	Function	Description
	On / off key, back	<ul style="list-style-type: none"> <li>- Press to switch on the meter.</li> <li>- Press and hold to turn off the meter.</li> <li>- Press in the Back menu.</li> </ul>
	Down key (arrow key)	<ul style="list-style-type: none"> <li>- Single keystroke to decrease a value by one digit</li> <li>- Press and hold to decrease the value quickly.</li> </ul>
	Up key (arrow key)	<ul style="list-style-type: none"> <li>- Single keystroke to increase a value by one digit</li> <li>- Press and hold to increase the value quickly.</li> </ul>
	Alarm on/off key, menu	<ul style="list-style-type: none"> <li>- Short keystroke to switch the alarm function on and off.</li> <li>- Press and hold this key to enter the menu.</li> </ul>



## 5 Switching the meter on and off

To turn on the meter, press the  key. The meter turns on immediately and starts measuring after two seconds. When you connect the power supply, the meter also turns on automatically. To turn off the meter, press and hold the  key for two seconds.

## 6 Alarm function

After the alarm has been triggered, it must be cancelled. It remains active until it is manually cancelled by the operator using the  key or is automatically cancelled after the set time. After the cancellation, the measurement will be continued after 2 seconds.  
**Note:** During this whole time, the display is frozen. Therefore, no measurement is made. The frozen reading will be logged every two seconds.





### 6.1 Switch alarm function on and off

To switch the alarm function on or off, press and release the  key once. The alarm LED above the  key indicates whether the alarm function is active.

## 7 Data storage

The sound measurement display logs the highest measured sound value every two seconds. As soon as the memory is full, the first half of the memory is automatically deleted and replaced by current measured values. It is therefore advisable to read out the memory on the PC at regular intervals. The memory is sufficient for 657,000 measured values.

## 8 Menu

In the menu of the sound meter you can make settings for the alarm function, date and time. To enter the menu, press and hold the  key for about 2 seconds. To select an individual menu item, press the  key repeatedly. You can change a value with the arrow keys. To accept a value, press the  key again. To exit the menu, press the  key.









The menu is arranged as follows:

Function	Description
Alarm limit value	Set the alarm limit value (range 50 ... 130).
Automatic alarm cancellation time	Set when the alarm is to be cancelled automatically after it has been triggered (range 6 ... 120 seconds).
Alarm volume	Set the volume of the alarm (range 1 ... 3).
Year	Set the current year.
Month	Set the current month.
Day	Set the current day.
Hour	Set the current hour.
Minute	Set the current minute.
Second	Set the current second.

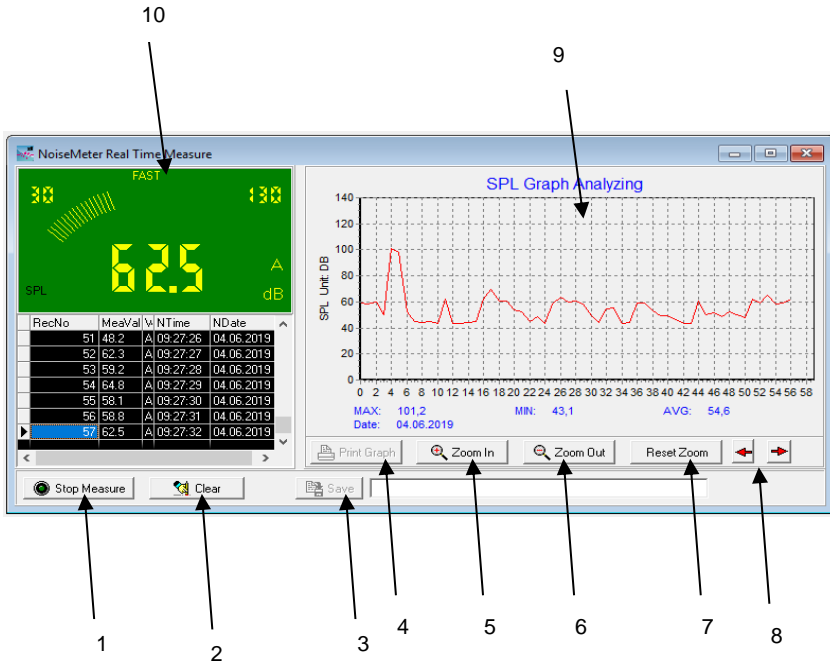
After setting the second, you automatically leave the menu and return directly to measuring mode.

## 9 Software

With the sound software you can download and analyse the stored data. A live view is also possible with the software.

	<p>Here you can start a live measurement. A new window will open in the software.</p>
	<p>Here you can download the stored measurement data from the noise meter. A new window will open in the software.</p>
	<p>Here you can open a measurement series saved to the PC.</p>
	<p>Here you can convert a measurement series into the file format xls and save it to the PC.</p>
	<p>Here you can print the measurement series. The graph is not printed.</p>
	<p>Here you can make settings for the software.</p>
	<p>Here you can find more information about the software.</p>
	<p>Here you can close the program.</p>

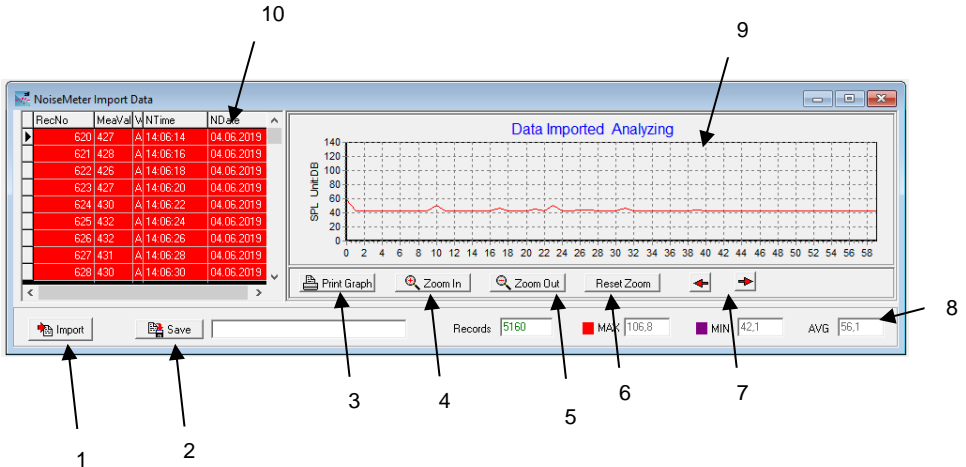
## 9.1 Window: Live measurement



No.	Description
1	Start and stop a live measurement.
2	Delete a measurement series.
3	Save the measurement series to the PC. This is only possible when the live measurement is stopped. File format: "lab"
4	Print graph. This is only possible when the live measurement is stopped.
5	Here you can zoom into the graph.
6	Here you can zoom out of the graph.
7	The zoom can be reset here.
8	Here you can move the graph when using zoom.
9	Graph with max, min, average value, date and time
10	Display



## 9.2 Window: Data readout



No.	Description
1	Start and stop a live measurement.
2	Save the measurement series on the PC. This is only possible when the live measurement is stopped. File format: "lab"
3	Print graph. This is only possible when the live measurement is stopped.
4	Here you can zoom into the graph.
5	Here you can zoom out of the graph.
6	The zoom can be reset here.
7	Here you can move the graph when using zoom.
8	Display of number of measurements, max, min and average value
9	Graph
10	List of all measured values



## 10 Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

## 11 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.



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