



PCE Instruments PCE428 Sound Measuring Case User Manual

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PCE Instruments PCE428 Sound Measuring Case



Product Information

- **Product Name:** Outdoor Sound Monitor Kit PCE-4xx-EKIT
- **Manufacturer:** PCE Instruments
- **Product Website:** www.pce-instruments.com

Specifications

- **Carrying Case:** PELI 1510 with rollers, IP65 protection, with grid foam
- **Charger:** Victron Blue Smart 12 V / 4 A IP65
- **Internal Batteries:** 2 x 12 V / 12 Ah lead gel
- **Battery Running Time:** Minimum 10 days
- **Power Supply:**
 - **With charger EU Version:** 180 ... 265 V AC
 - **With charger US Version:** 100 ... 130 V AC
 - **Battery operation:** 2 x 12 V / 12 Ah
- **Cable Length:** 2 m / 6ft 6 (microphone cable), PowerCon TRU (connection cable for power supply)
- **Dimensions:** 56 x 35 x 23 cm
- **Weight:**
 - **With batteries:** Approximately 14 kg
 - **Without batteries:** Approximately 8 kg

Delivery Contents

- 1 x Outdoor Sound Monitor Kit PCE-4xx-EKIT
- 1 x Waterproof PELI transport case
- 1 x Wind and rain protection for microphone of the PCE-4xx series
- 1 x Charger for internal batteries
- 2 x 12 V lead gel batteries
- 1 x Tripod
- 1 x 2 m / 6ft 6 microphone cable
- 1 x Connection cable for power supply 110 V / 230 V (optional Schuko or US connection)

Product Usage Instructions

1. **Safety Notes:** Before using the device for the first time, please read the user manual carefully. The device should only be used by qualified personnel and repaired by PCE Instruments personnel. Non-observance of the manual may result in damage or injuries, which are not covered by warranty.
2. **Introduction:** The Outdoor Sound Monitor Kit PCE-4xx-EKIT is designed for outdoor noise measurement and can be used with the noise meters PCE-428, 430, and PCE-432. It allows for long-term measurement of outdoor noise levels using an SPL level meter. The kit comes in a waterproof PELI carrying case with rollers, and includes additional lead gel batteries and a charger for extended operation.
3. **Delivery Contents:** The kit includes the Outdoor Sound Monitor Kit PCE-4xx-EKIT, a waterproof PELI transport case, wind and rain protection for the microphone, a charger for internal batteries, two 12 V lead gel batteries, a tripod, a 2 m / 6ft 6 microphone cable, and a connection cable for power supply (110 V / 230 V).
4. **Setting up the Measurement System:** Follow the instructions provided with your noise meter (PCE-428, 430, or PCE-432) to connect it to the Outdoor Sound Monitor Kit. Place the microphone in the wind and rain protection provided, and connect it to the microphone cable. Connect the power supply using the appropriate connection cable.
5. **Recharging the Batteries:** To recharge the internal batteries, connect the charger to a power source and plug it into the carrying case. Ensure that the charger is compatible with the voltage in your region (EU Version: 180 ... 265 V AC, US Version: 100 ... 130 V AC).
6. **Contact:** If you have any questions or need assistance, please contact PCE Instruments using the contact details provided at the end of the user manual.

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



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.
- Remove the batteries when the meter is not used for more than 60 days.
- Turn off the meter when not in use.

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.

Introduction

The kit for outdoor noise measurement PCE-4xx-EKIT is combinable with the noise meters PCE-428, 430 and PCE-432. This outdoor kit makes it possible to measure outdoor noise with an SPL level meter over a longer period of time. The environmental noise monitoring system comes in a waterproof PELI carrying case with rollers. A charger and two additional lead gel batteries are installed in this case, which allows operation for up to 10 days. During the outdoor noise measurement, the case can remain closed. Due to the external connections for the microphone and the power supply, all electronic components are protected from water.

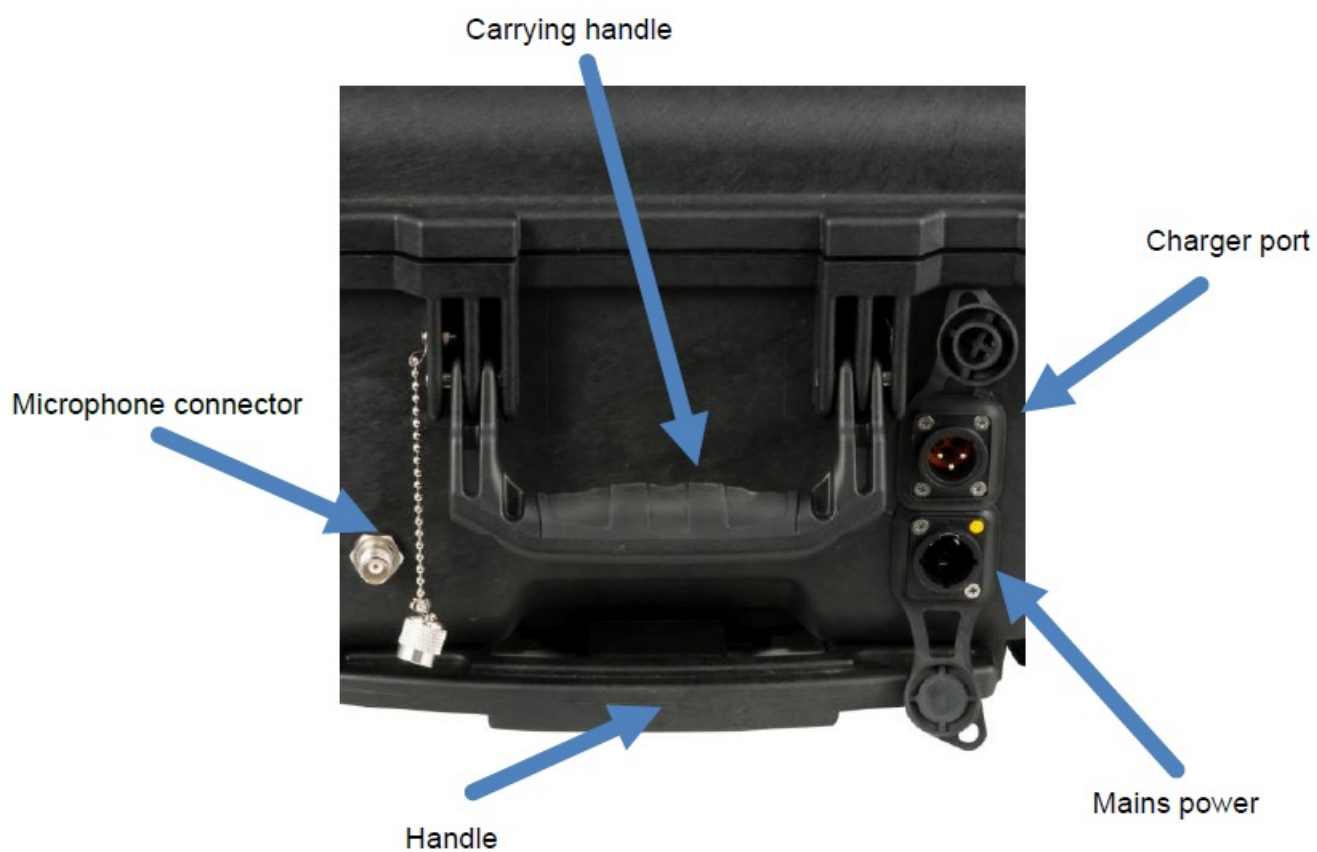
Delivery contents

- 1 x Outdoor Sound Monitor Kit PCE-4xx-EKIT
- 1 x Waterproof PELI transport case
- 1 x Wind and rain protection for microphone of the PCE-4xx series
- 1 x Charger for internal batteries
- 2 x 12 V lead gel batteries
- 1 x Tripod
- 1 x 2 m / 6ft 6" microphone cable
- 1 x Connection cable for power supply 110 V / 230 V (optional Schuko or US connection)

Specifications

Carrying case	PELI 1510 with rollers with grid foam
Protection	IP65
Connections on the suitcase	Microphone: TNC 12 V charging voltage: XLR 110 V / 230 V charging voltage: PowerCon TRU
Charger	Victron Blue Smart 12 V / 4 A IP65
Internal batteries	2 x 12 V / 12 Ah lead gel
Battery running time	min. 10 days
Power supply	With charger EU Version: 180 ... 265 V AC With charger US Version: 100 ... 130 V AC Battery operation: 2 x 12 V / 12 Ah
Cable length	Microphone cable: 2 m / 6 ft 6" with TNC connector Power supply: 2 m / 6 ft 6" with PowerCon TRU
Dimensions	56 x 35 x 23 cm / 2.2 x 1.3 x 0.9"
Weight	about 14 kg / 30 lb 13 oz with batteries about 8 kg / 17 lb 10 oz without batteries

Device Description



Installing the measuring system

First unfold the tripod. Then guide the measurement signal cable through the microphone holder. Now connect the microphone to the measurement signal cable and screw the microphone onto its holder. Then screw the microphone holder onto the tripod. Use the measurement signal input to connect the measurement signal cable to the measuring case. Finally connect the measuring cable and the power supply cable to your sound level meter in the case.

Note:

Always ensure vertical position of the microphone. Otherwise, damage through weathering may occur.

Recharging the batteries

There are two methods to charge the batteries.

First method

If you wish to charge the batteries with the charger directly installed in the case, connect the charger to the voltage supply and to the battery supply within the case. Connect the included supply cable outside the measuring case.

Second method

When the temperature within the measuring case could possibly exceed 50 °C, it is recommended to use the charging method with the charger outside the case to avoid overheating which can cause the charger to turn off automatically. Connect the charger to the charger port outside the measuring case. Now connect the included supply cable to the charger directly.

The different shapes of the plugs do not allow incorrect connection of the charger.

Warranty

You can read our warranty terms in our General Business Terms which you can find here: <https://www.pce-instruments.com/english/terms>.

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.



PCE Instruments contact information

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Specifications are subject to change without notice.

www.pce-instruments.com.

Documents / Resources

	PCE Instruments PCE428 Sound Measuring Case [pdf] User Manual PCE428 Sound Measuring Case, PCE428, Sound Measuring Case, Measuring Case, Case
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References

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- [Industrial Measurement Products and Solutions | PCE Instruments](#)
- [PCE Deutschland GmbH Prüfgeräte vom Hersteller | PCE Instruments](#)
- [PCE Brookhuis B.V. | PCE Instruments](#)
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