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PCE-RDM 5 Environmental Meter

PCE INSTRUMENTS PCE-RDM 5 Environmental Meter User Manual

Contents

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TECHNICAL PARAMETERS

Detector	48mm Geiger counter tube
Measuring range	Dose rate: 00.0BµSv/h – 9999µSv/h
Reaction speed	React within 1 O seconds and reach stable values In 2 minutes
Refresh frequency	1 second each time
Resolution	0.01 uSv/h
Working environment	-10-SO"C; humidity:!=95%RH without condensation
Battery capacity	400 mah

Product Usage Instructions

- **Shutdown/Pause Button**

  Press and hold for 2 seconds to shut down/start up. During startup, click to pause or continue real-time detection.

- **Page-turning Button**

  Click to switch three functional interfaces in a loop: Real-time data > Maximum+Average+Total > Histogram.

- **Mute/Vibration/Off-Screen Button**

  Click to cycle through reminder modes: sound reminder, vibration reminder, sound and vibration reminder, close all reminders. Long press for off-screen mode.

- **Set the Alarm Value**

  Short press to enter the alarm value setting. Click once for maximum value alarm, click again for total amount alarm. Long-press in these interfaces to enter the settings, and use the page button to select the alarm value. Press short again to save and exit.
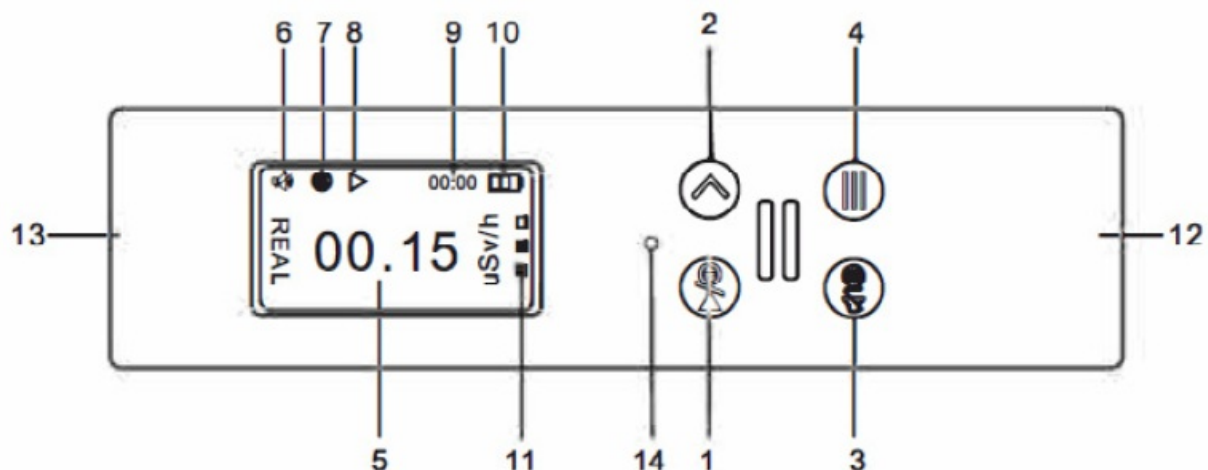
User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found

Thank you for purchasing this product. Please read the instruction manual carefully before using this product.

BUTTON AND FUNCTION DESCRIPTION

1. Shutdown/Pause button/Return to the main interface. Press and hold for 2 seconds to shut down/start up. During the startup, click to pause or continue real-time detection. Clicking this button on any interface other than the main interface is the function of returning to the main interface.

2. Page-turning button. Click to switch three functional interfaces in a loop. Real-time data> Maximum+Average+Total>Histogram.

3. Mute/vibration/off screen. Click to cycle through the reminder mode: only so und, reminder-only vibration, reminder-sound, and vibration, reminder-close all reminders. Long press: off screen. Press any button to wake up during off-screen.

4. Set the alarm value. Short press to enter the alarm value setting: click once is the maximum value alarm, click again is the total amount alarm. Press in these two interfaces to enter the settings, and click the page button to select the alarm value. Short-press this button again to save and exit. When setting the alarm value interface, if there is no operation for 5 seconds or a short press of the 1st button, the current settings will be saved and exit to the main interface.

5. Display

6. Sound alarm on/off icon

7. Vibration alarm on/off icon

8. Real-time value pause/resume icon

9. Boot time

10. Battery reminder

11. page navigation bar

12. Charging Type-C port

13. Portable Lanyard

14. Light reminder alarm

PRODUCT INTRODUCTION

- The PCE-RDM 5 is a small, high-sensitivity radiation dose alarm, mainly used to monitor X-rays, gamma rays, and hard beta rays.
- The instrument uses an energy-compensated GM countertube as a detector, which has the characteristics of high sensitivity, streng anti-interference ability, and accurate measurement.
- Lt adopts a powerful microprocessor and is equipped with a TFT display screen, which makes the operation easier.
- The product itself has three alarm modes: sound, flash and vibration, and the alarm threshold can be set arbitrarily. When the alarm threshold is reached, an alarm will be issued to remind the staff to pay atten-tion to safety. The main technical indicators of the instrument conform to international standards.

RADIATION DOSE LIMITS

Dose limits for personnel in the radiation industry:

Average annual effective dose for 5 consecutive Years:	20 m Sv
Effective dose in any year	SO m Sv
Annual equivalent dose of the eye lens	150 m Sv
Annual equivalent dose for extremities (hands and feet) or skin	SOO m Sv

Dose limits for members of the public:

Average annual effective dose for 5 consecutive Years:	1 m Sv
Effective dose in any year	S m S v
Annual equivalent dose of the eye lens	15 m Sv
Annual equivalent dose for extremities (hands and feet) or skin	50 m Sv

PAY ATTENTION

1. This product contains a lithium battery, Please use a standard DDC-DC power supply to charge.
2. Do not use this product in a high-temperature and high-humidity environment to avoid inaccurate data or circuit failure.
3. Do not use this product in an ultra-high radiation environment to avoid damage to the sensor.
4. This product is not waterproof. Please do not immerse water droplets or use it underwater.
5. This product contains precision electronic components. Do not pierce needles or sharp objects into the

product?

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. 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 the law. For countries outside the EU, batteries and devices should be disposed of according to your local waste regulations. If you have any questions, please contact PCE Instruments.

PCE INSTRUMENTS CONTACT INFORMATION

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Frequently Asked Questions

- **Q: What should I do if the device is exposed to ultra-high radiation?**

  A: Avoid using the product in an ultra-high radiation environment to prevent damage to the sensor.
- **Q: How do I charge the product?**

  A: Use a standard DC-5V power supply to charge the product, as it contains a lithium battery.

Documents / Resources

PCE INSTRUMENTS PCE-RDM 5 Environmental Meter [pdf] User Manual
PCE-RDM 5 Environmental Meter, PCE-RDM 5, Environmental Meter, Meter

References

- **instruments.co**
- **User Manual**