

USER MANUAL

RADIATION DETECTOR

PCE-RAM 5



ENGLISH



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

PRODUCT PROFILE

Radiation Detector PCE-RAM 5 is one small size high sensitivity radiation dose alarm instrument, mainly used to monitor X, β and γ rays. It configured white OLED screen, visual in night. It has both sound and flashing alarm method, and the alarm threshold able to be key setting. The main technical index of this instrument accordance with national and international standard line.

MAIN CHARACTERISTICS

- » Real time measure dose rate, and record the accumulated dose and region average value at the same time.
- » Smaller measure error range and able pass through national metering standards.
- » Dose rate alarm threshold and metering alarm threshold all can be key setting.
- » It has over dose alarm function, sound and optic alarm.
- » Start machine and test automatically, simply and easily operation.
- » It has exquisite volume and light weight, pen clamps design convenient to wear.
- » Internal configured chargeable lithium battery, able to continue test 50 hours after fully charged.
- » Display screen able to continuously measure after automatic dormant.
- » White light OLED display screen design, displayed more clearly, also able to normally display in night.
- » It has self-fault reminding function (the display screen display **Device Fault**)

TECHNICAL PARAMETERS

Sensor	48mm Geiger counter tube
Measure range	0.05uSv ... 50mSv
Measure precision	-17% ... +25% based on ^{137}Cs γ
Working environment	Temperature -20°C ... 50°C Humidity <95% RH without dew
Size	Diameter 15.3 mm / Length 108mm / Weight 19g
Durable time	50 Hour (continue measure, screen dormant)
Charging time	2 ... 3 Hours
Charging joggle	TYPE-C joggle (green light normally lighting when charging, extincted when fully charged)
Alarm responding time t_d	<10s

MENU EXPLANATION

DOSE RATE	means moment dose rate
00:00	05 means start measure time, the max 100hours
DOSE	means accumulated dose
AVR	means the average dose rate
MAX	means the max dose rate
DOSE RATE Alarm	set the alarm threshold of moment dose rate
DOSE Alarm	set the accumulate dose alarm threshold

EXPLANATION OF THE KEYS

- » Power supply key (at right side): 3s long time press for power on/off, short time press for function keys
- » Menu key (at the left side): used in menu page turning and alarm threshold adjustment

ALARM SETTING

Power on and default the lock status, indicate the LOCK on the display screen, need press the power supply key for unlock at the same time of press the menu key, only can set the alarm parameters after unlocked.

Set the moment dose rate alarm threshold (DOSE RATE Alarm):

- » Short time press menu key shift the menu to DOSE RATE Alarm page.
- » Short time press power supply key DOSE RATE Alarm then alarm value flashing, now circling shift to alarm value within 0.6 ... 300uSv range through menu key.
- » Short time press power supply key to save the alarm value.

Set the accumulate dose alarm threshold (DOSE Alarm):

- » Short time press menu key shift the menu to DOSE Alarm page.
- » Short time press power supply key DOSE Alarm then alarm value flashing, now circling shift to alarm value within 1 ... 3000uSv range through menu key.
- » Short time press power supply key to save the alarm value.

SAFETY NOTES

Instrument unexpected fallen	Please confirm whether radiation dose indicate value are normal, whether it will update. Please don't apply the instrument in the high strength radiation field.
Instrument indicates that the device is damaged	Please don't apply the instrument in the high strength radiation field.
Contain explode and inflammable gas or powder dust in the operate environment	Please don't apply the instrument in expldoe and inflammable gas and powder dust environment.
Waterproof	Please attention the water proof degree of instrument only IP40, can't be raining or water splashing.
Energy responding	For the X-ray, it only can used as reference of test strong or weak radiation, unable to meet energy responding requirements.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 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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