

RADIATION DETECTOR

PCE-RAM 3



- » **real-time value, average value**
- » **measuring functions: Min, Max**
- » **sensitivity: 80 CPM/µSv (based on Co-60)**
- » **radiation alarm adjustable**
- » **adjustable cumulative radiation alarm**
- » **cumulative dose display**

Our radiation detector is mainly used to measure gamma, beta and X-rays and uses a Geiger-Müller counter to measure the intensity of ionising radiation. The measuring range extends from 0 ... 10 mSv/h. The cumulative dose, average and maximum dose are shown on the large 2.3 inch multifunctional display, while the real-time measurements are also shown graphically.

The device has two alarm modes: the radiation alarm (0 ... 100 µSv/h) and the cumulative radiation alarm (0 ... 100 mSv). Both alarms are equipped with different settings for visual, audible and vibrating warning signals. The energy range of the device is between 48 and 1500 keV. The radiation measuring device is equipped with a micro USB interface and a rechargeable lithium battery.

The radiation detector also displays the current battery level so that the user is always informed. The brightness of the display can be adjusted as required so that it is easier to read even in different lighting conditions. The date and time are also shown on the display.

This radiation detector is ideal for applications in research, medicine, industry and environmental protection. It can be used in nuclear power stations, hospitals, laboratories, radiation monitoring and emergency scenarios. Furthermore, it is also useful for construction companies that are working with radioactive materials and in environmental monitoring to ensure that radiation exposure remains within safe limits.

Specification

Radiation	
Measurement range up to	0 ... 10 mSv/h
Resolution	0,01 µSv/h
Accuracy	±30 % (for 137 Cs)
Radiation	
Measurement range up to	0 ... 500 mSv
Resolution	0,01 µSv
Accuracy	±30 % (for 137 Cs)

General technical data	
Measuring functions	MIN, MAX, Average value
Units	µSv/h, µGy/h, mR/h, cps, cpm
Energy range	48 ... 1500 keV
Display type	LCD with backlight
Display size	2,8 Inch
Interface	Micro-USB
Sensor	Geiger-Mueller counter tube
Alarm	optical, Acoustic, Vibration
Alarm modes	Radiation alarm: 0 ... 100 µSv/h Cumulative radiation alarm: 0 ... 100 mSv
Sensitivity	80 CPM/µSv (related to Co-60)
Menu language	English, Chinese, English (GB), Russian, Japanese, Spanish, Portuguese, Korean
Protection class (device)	IP20
Power supply	5 V DC
(Rechargeable) battery	1 x 3,7 V JHCY703048 , Lithium polymer battery
Capacity	1100 mAh
Operating conditions	0 ... 50 °C , 5 ... 70 % RH
Storage conditions	0 ... 50 °C , 5 ... 70 % RH
Dimensions (L x W x H)	165 x 90 x 32 mm
Weight	213 g