

# RADIATION DETECTOR

## PCE-RAM 7



- » gamma, beta and X-rays
- » display in  $\mu\text{Sv/h}$ , CPM, CPS
- » sensitivity of 80 CPM /  $\mu\text{Sv}/(\text{Co-60})$
- » adjustable audible alarm
- » sensor: Geiger-Müller counter tube
- » display of time and date
- » battery operation
- » ergonomic handle

The radiation detector with a measurement range of 0 to 9999  $\mu\text{Sv/h}$  and a resolution of 0.01  $\mu\text{Sv/h}$  is a powerful and precise instrument for detecting beta ( $\beta$ ), gamma ( $\gamma$ ) and X-ray radiation. Equipped with an energy-compensated Geiger-Müller tube, it offers a high sensitivity of 80 CPM/ $\mu\text{Sv}$  (for Co-60) and a flexible display in  $\mu\text{Sv/h}$ , CPM and CPS.

Thanks to its compact and handy design, the radiation detector is easy to use and is ideal for measuring small changes in radiation values. Our radiation detector is equipped with a display that shows the date and time and offers the option of switching the display from white to black to optimise readability under different lighting conditions. An adjustable audible alarm provides additional safety by making you aware of increased radiation levels. Battery operation allows flexible use in different areas. The charging time of the device is only approx. 1-2 hours.

The radiation detector is used, for example, in environmental protection by security forces, in the medical sector and also by private individuals to monitor their living environment.

## Specification

Radiation	
Measurement range up to	0 ... 9999 $\mu$ Sv/h
Resolution	0,01 $\mu$ Sv/h
Accuracy	$\leq 3$ % of Rd
Radiation	
Measurement range up to	0 ... 9999 cps
Resolution	1 cps
Accuracy	$\leq 3$ % of Rd
Radiation	
Measurement range up to	0 ... 9999 cpm
Resolution	1 cpm
Accuracy	$\leq 3$ % of Rd

General technical data	
Measuring functions	Gamma rays, X-rays, Beta radiation
Energy range	20 ... 3000 keV
Display type	TFT colour display
Display size	1,8 Inch
Interface	Micro-USB
Sensor	Geiger-Mueller counter tube
Alarm	Acoustic
Sensitivity	80 cpm/ $\mu$ Sv (Co-60)
Menu language	English
Protection class (device)	IP54
Power supply	5 V
Weight	170 g
Operating conditions	0 ... 50 °C , 10 ... 90 % RH
Storage conditions	-10 ... 60 °C , 10 ... 90 % RH
Capacity	1100 mAh
Dimensions ( L x W x H )	180 x 55 x 80 mm