

# RADIATION DETECTOR

## PCE-RAM 6



- » **X-, Y- and hard  $\beta$ -radiation**
- » **Sensitivity of 80  $\mu\text{Sv/h}$**
- » **Alarm: sound/vibration - limit values 0.2  $\mu\text{Sv/h}$  ... 10  $\mu\text{Sv/h}$**
- » **Sensor: Geiger-Müller counter tube**
- » **Automatic switch OFFSET()**

This radiation meter offers a measuring range of 0.00 to 1000  $\mu\text{Sv/h}$  and ensures precise measurements with a resolution of 0.01  $\mu\text{Sv/h}$ . Equipped with a highly sensitive Geiger counter tube and a sensitivity of 80  $\mu\text{Sv/h}$ , it enables reliable detection of radiation levels over a wide energy range from 48 keV to 1500 keV. Optionally, the device has alarm modes with adjustable limit values from 0.2  $\mu\text{Sv/h}$  to 10  $\mu\text{Sv/h}$ , which provide the user with acoustic or vibration-based warnings to react quickly to increased radiation levels. In addition to the current measured value, the radiation meter also graphically displays the course of the measurement curve over the last 3 minutes.

Our radiation meter with a Geiger counter tube as a sensor is a versatile instrument for monitoring X, gamma and hard beta radiation in radioactive work areas. With fast response, a wide measurement range and dose equivalent rate display, it offers a reliable solution for a wide range of applications. Commonly used in workplace, industrial and medical applications as well as in the environmental control of nuclear facilities.

With compact dimensions and an LC colour display, the radiation meter is user-friendly and suitable for use in various environments. The automatic switch-off feature helps to extend battery life and ensures efficient use. Overall, the device offers a reliable and precise solution for monitoring radiation in a variety of applications.

## Specification

### Radiation

Measuring range up to	0 ... 1000 $\mu$ Sv/h
Resolution	0,01 $\mu$ Sv/h
Accuracy	15 % of the measured value (of m.v.)

### General technical data

Measuring functions	Hard beta rays, Gamma rays, X-rays
Energy sector	48 ... 1500 keV
Display Typ	LCD-Color Display
Display size	2,4 Inch
Display refresh rate	1 x per second
Data interface	USB-C
Sensor	Geiger-Müller counter tube
Automatic shutdown adjustable	0 ... 10 min.
Automatic switch-off can be deactivated	Yes
Alarm	Acoustic, Vibration
Menu language	English (US), Chinese
Protection class (device)	IP20
Power supply	5 V
Battery/battery	1 x 3,7 V intern , Lithium polymer battery
Battery capacity	400 mAh
Operating conditions	-10 ... 45 °C , 0 ... 95 %RH
Storage conditions	-10 ... 45 °C , 0 ... 95 %RH
Dimensions ( L x W x H )	143 x 77 x 28 mm
Weight	128 g