

RADIATION DETECTOR

PCE-RAM 9



- » γ -, β -, X- radiation
- » sensor: Geiger-Müller counter tube
- » adjustable alarm
- » 3.2 inch TFT colour display
- » probe: IP67, waterproof up to 1.5 m water depth
- » internal memory for 1000 readings
- » data transfer to computer

Our radiation detector is a versatile and precise device that is used in various areas such as security and emergency services, industrial facilities, research facilities, airports, harbours and by private individuals to monitor radiation and environmental risks. It measures gamma, beta and X-ray radiation and enables precise measurement over a measuring range of 0.00 ... 10 mSv/h with a resolution of 0.01 mSv/h. The radiation detector offers a high sensitivity of 80 cpm/ μ Sv/(Co-60) and a wide energy range from 20 keV to 3000 keV, enabling accurate measurement of different types of radiation. It has an internal memory for up to 1000 measured values and allows this data to be transferred as a csv file to a computer for further analysis. In addition, the history of the last 1000 data records can also be called up on the measuring device.

The radiation detector is supplied with a probe that is protected to IP67 and remains waterproof up to a water depth of 1.5 metres. In addition, it offers an adjustable alarm that is triggered when set radiation levels are exceeded and a 3.2 inch TFT colour display for a user-friendly display of the measured values. Our radiation detector has another function, automatic voice output in English, which allows the user to hear the options selected in the menu via voice feedback and simplifies operation.

Specification

Radiation	
Measuring range	0 ... 10 mSv/h
Resolution	0,01 mSv/h
Accuracy	≤10% of Rd
Radiation	
Measuring range	0 µSv/h ... 999,9 Sv/h
Resolution	0,01 µSv/h
Accuracy	≤10% of Rd
Relative humidity	
Measuring range	0 ... 100 %
Resolution	0,1 %
Accuracy	±3 % of Rd
Temperature	
Measuring range	20 ... 60 °C
Resolution	0,1 °C
Accuracy	±2 °C
Temperature	
Measuring range	68 ... 140 °F
Resolution	0,18 °F
Accuracy	±3,6 °F

General technical data	
Cable length	170 cm
Measuring functions	Real-time value, Average value, Accumulated value
Energy range	20 ... 3000 keV
Display type	TFT colour display
Display size	3,2 Inch
Display resolution	320 x 240 pixels
Storage medium	Internal memory
Storage capacity	1000 Values
Storage interval from	10 s
Storage interval to	60 min.
Interface	Micro-USB
Sensor	Geiger-Mueller counter tube
Operating time	3 h
Automatic power-off from...to	10 ... 60 min.
Alarm	Acoustic
Dimensions	Probe: L: 225 mm x Ø17 mm
Alarm settings	0 ... 99.99 µSv/h
Menu language	German, English, French, Spanish, Chinese, Japanese
Protection class (device)	IP20
Protection class (additional information)	Probe: IP67
Power supply	5 V DC
(Rechargeable) battery	1 x 3,7 V 18650 , Lithium-ion battery
Capacity	2200 mAh
Operating conditions	0 ... 50 °C , 0 ... 90 % RH
Storage conditions	0 ... 50 °C , 0 ... 90 % RH
Dimensions (L x W x H)	220 x 80 x 46 mm
Weight	237 g