

RADIATION PROTECTION
GEIGER COUNTER



PCE-RAM 100

Radiation meter for α , β , γ radiation / internal memory for 10 million measuring points

The radiation meter offers comprehensive measurement functions for α , β and γ radiation and is the test instrument of choice for professional radiation measurements. With the ability to precisely record the accumulated radiation dose and count the radiation in both cps (counts per second) and cpm (counts per minute), the radiation meter provides accurate and reliable measurement data at all times.

The integrated data logger with 32 GB memory saves the measured values and enables detailed analyses. The measurement process is shown graphically on the TFT colour display. Individual alarm limits can also be set in the radiation meter: A warning message appears if a certain radiation value or a defined radiation dose is exceeded.

ISO cal option

- » α , β , γ radiation
- » accumulated radiation dose
- » pulse counting in cps and cpm
- » data logger with 32 GB memory
- » adjustable alarm
- » graphical measurement curve
- » radiation pulse audible



APPLICATION



TECHNICAL SPECIFICATIONS

Radiation		Menu language	German, English (UK), English (US), French, Spanish, Italian, Danish, Portuguese, Turkish, Polish, Russian, Chinese, Dutch, Japanese
Measurement range	0 ... 1500 μ Sv/h	Protection class (device)	IP52
Resolution	0.001 μ Sv/h	Power supply	5 V DC, 500 mA
Accuracy	<10 % of Rd (< 1000 μ Sv/h)	Weight	280 g
		Operating conditions	-20 ... 65 °C, 10 ... 95 % RH
Radiation		Storage conditions	-20 ... 65 °C, 10 ... 95 % RH
Measurement range	0 ... 150 mrem/h	Capacity	2500 mAh
Resolution	0.001 mrem/h	Dimensions (L x W x H)	208 x 85 x 37 mm
Accuracy	<10 % of Rd (< 100 mrem/h)		
Radiation			
Measurement range	0 ... 9.9 Sv		
Resolution	0.1 Sv		
Accuracy	<10 % of Rd (< 100 μ Sv)		
Radiation			
Measurement range	0 ... 167000 cps		
Resolution	1 cps		
Accuracy	<10 % of Rd		
Radiation			
Measurement range	0 ... 9999999 cpm		
Resolution	1 cpm		
Accuracy	<10 % of Rd		
General technical data			
Measuring functions	MIN, MAX, average value		
Display type	TFT colour display		
Display size	2.8 inch		
Storage medium	internal memory		
Memory capacity	32 GB		
Memory capacity (additional information)	10 million measuring points		
Storage interval from	1 s		
Storage interval to	12 h		
Interface	USB-C		
Sensor	Geiger-Müller counter tube		
Operating time	24 h		
Operating time (additional information)	depending on display brightness and data logger settings		
Automatic power off from ... to	1 ... 15 min		
Automatic power off deactivatable	yes		
Alarm	optical, acoustic		
Alarm modes	radiation, radiation dose pulse count		
Sensitivity	α -rays from 4 MeV β -rays from 0.2 MeV γ -rays from 30 keV		



Subject to change without notice