

POCKET RADIATION DETECTOR GMM 78 (CRACKER)



- True portable instrument
- Battery powered
- Short response time
- Integrated speaker
- Lightweight: 0.23 kg
- 100 hours of continuous operation on standard 9 V battery

“Cracker” is pocket detector for ionising radiation. It is used for quick indication of radioactivity. As a detector, cylindrical thin-wall Geiger Mueller tube is used. Each pulse caused by a passing photon is heard as crunching coming from the built-in loudspeaker. At the background radiation (aprox. 100 nSv/h), about 10 cracks per minute are heard. To the dose rate of aprox. 10 μ Sv/h, cracking sound is heard, which, at the dose rates higher than that changes into a buzzing sound which faints at higher dose rates.

Energy source for the instrument is built-in battery that can provide power continuously for 100 hours. For changing the battery, back cover of the instrument must be removed. With almost empty batteries, sound becomes weaker.

TECHNICAL DATA

Detector	cylindrical halogen Geiger Mueller tube type SBM 20
High voltage	400 V
Background	aprox. 10 imp/min (100 nSv/h)
Cracking	to aprox. 1 μ Sv/h
Crunching	from aprox. 1 μ Sv/h to aprox. 10 μ Sv/h
Buzzing	over 10 μ Sv/h
Limit of use	aprox. 1 Sv/h
Power supply	battery, 9V
Dimensions	135 x 60 x 30 mm (L x W x H)
Mass	230 g