

PAKRI-EM

Professional Handheld Alpha, Beta, Gamma, X-Ray and Radon Radiation Detector



PAKRI-EM is a digital handheld professional alpha (α), beta (β), gamma (γ), radon (Rn) and X-ray radiation meter that is designed to monitor and measure equivalent dose rate of radiation. The device is highly sensitive and can detect even small sources of radiation, including Rn in gaseous form that can gather in basements and other closed areas. The large active area sensors of PAKRI-EM helps to also determine the direction of the source of α and β radiation.

PAKRI-EM radiation detector has a very fast radiation detection time and is excellent for accurately monitoring and measuring different sources of radiation in potentially hazardous environments. Visual and audible alarms alert the user immediately if the radiation dose rate exceeds the programmable threshold level. Each detected event is accompanied by a beep sound; a full alarm is sound for higher radiation levels. An LCD display is programmed to display the equivalent dose rate or frequency of radiation pulses in CPM.

PAKRI-EM has a precision mode for longer and more accurate measurement for a given location.

The collected data is stored in the device's memory to be later viewed graphically.

PAKRI-EM Features and Benefits

- Highly accurate with very fast radiation detection time
- Measures and detects α , β , γ and X-Ray radiation and Rn
- Large active area helps determine source of α and β radiation
- LCD displays alarms and equivalent dose rate ($\mu\text{Sv/h}$) or pulse frequency (CPM)
- Audible beeps for radiation detection events with full alarm for $>10 \mu\text{Sv/h}$ dose equivalent rate
- Precision measurement mode
- USB data transfer; graphical presentation of stored data in PC

Parameter	Units	Value
Detector		GM tubes, 2 pieces
Effective diameter of 1 GM tube	mm	44.5
Output signal	$\mu\text{Sv/h}$ CPM	Dose rate of γ and X-ray radiation Total $\alpha\beta\gamma$, X-ray radiation
Measurement range		0.0 - 99.99 $\mu\text{Sv/h}$ 0 - 9999 CPM
Power supply		9V alkaline battery
Operating temperature	$^{\circ}\text{C}$	-15 to +35
Dimensions	mm	240 x 128 x 80
Weight	g	1060
Protection		IP65