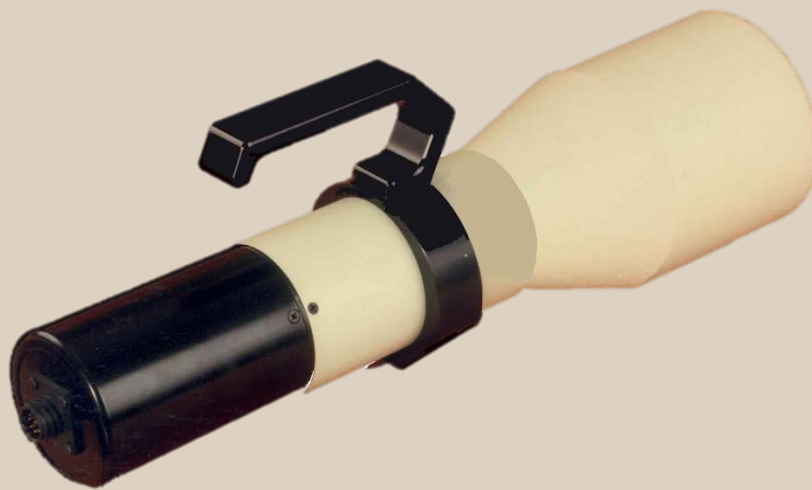


The PM-33 detector

The PM-33 is a scintillation probe for detection of gamma radiation. The combination of the RAM DA 2000 monitor and the PM-11 probe, permits highly efficient surface contamination detection.

A low voltage interface connects the RAM DA 2000 monitor with the probe. The PM-11 contains a highly efficient, hermetically sealed, NaI(Tl) scintillator, 3" diameter and 3" thick, coupled to a 3" photomultiplier tube. This is encased in a rugged, splash proof housing for protection against shock, vibration and humidity. The probe also contains a high voltage power supply, single channel analyzer (SCA), pulse shaper, GM saturation indicator, detector identifier and malfunction detection circuitry. This configuration minimizes noise, improving sensitivity and stability.



Specifications

Radiation Detected:	Gamma above 50 keV
Scintillator:	NaI(Tl) 3" diameter, 3" thick. Window of 1 mm. (0.04") aluminum
Energy Calibration:	Optional factory calibrated single channel analyzer (SCA) within the energy range
Count Rate Range:	0 - 50,000 cps
Output Signals:	TTL pulses. Detector status: ID, OK, malfunction, overflow
Temperature Range:	Operation: -10°C to +50°C (15°F - 122°F) Storage: -20°C to +60°C (-5°F - 140°F)
Humidity Range:	40% to 95% RH (non condensing)
Dimensions:	340mm (13.4") length, 105 mm (4.13") width
Weight:	1.95kg (4.78 lbs)
Casing:	Aluminum, splash proof



Sensitivity (centered at a distance of 10 cm)

2 @ 0.5 MeV and 1.3 @ 2.0 MeV

Typical efficiencies given as a percentage for a 1-uCi ¹³⁷Cs source centered at a distance of 10 cm

Ordering Information

Model PM-33

BAK-1515

Note: Specifications subject to change without notice.

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

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