

PM-33 Detector

Highly Sensitive Gamma Detector

Radiation Detection Division

Health Physics

The PM-33 is a scintillation probe for detection of gamma radiation from 0 to 50,000 cps with a sensitivity of 4,500 CPS per uSv/h (¹³⁷Cs)

The PM-33 contains a highly efficient, hermetically sealed, NaI(TI) 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.

The PM-33 can be used as an detector to the RAM DA-2000. When used in conjunction with the TeleMeterextremely sensitive Environmental Monitor when connected directly to the TeleMeter or as an external

Stand Alone Measuring Range: Background to 10 uSv/h

Environmental Monitor Measuring Range: Background to 15 mSv/h (1.5 R/h) where the internal GM tube in the TeleMeter is activated to measure from 10 uSv/h to 15 mSv/h

Features



PM-33 Detector

Radiation Detected:	Gamma above 50 keV
Sensitivity (¹³⁷ Cs):	4,500 CPS per uSv/h
Scintillator:	Nal(TI) 3" diameter, 3" high
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:	365mm (14.4") length, 105 mm (4.13") width
Weight:	2.95kg (6.5 lbs)
Casing:	Aluminum, splash proof

Ordering Information

BAK-1515 PM-33 Detector

ROTEM INDUSTRIES reserves the right to change specifications without advance notice





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