ROTEM

PM-11 Detector

Sensitive NaI(Tl) gamma probe, Rotem's primary effluent detector in WebiSmarts

Gamma scintillation probe with a hermetically sealed 2 × 2 inch NaI(Tl) crystal and photomultiplier. It is Rotem's primary, highly sensitive effluent detector in WebiSmarts and is mounted in the exhaust stack of cyclotrons to provide online release data; it can also be connected to the coincidence box, DRM-3000, DPU-3, RAM DA 2000 and RAM R-200.



Detector
NaI(Tl), 5.1 × 5.1 cm (2 × 2 in) ; magnetically shielded 5.1 cm p hotomultiplier [1]

Energy range
Gamma above 50 keV; recommended 30 keV – 3.0 MeV [1]

Count-rate range
0–50,000 cps [1]

Specifications

Detector	NaI(Tl), 5.1 × 5.1 cm (2 × 2 in); magnetically shielded 5.1 cm photomultiplier	[1]
Energy range	Gamma above 50 keV; recommended 30 keV – 3.0 MeV	[1]
Detection efficiency	^{125}I 4%; ^{57}Co 20%; ^{137}Cs 9%; ^{60}Co 15%	[1]
Count-rate range	0–50,000 cps	[1]
Compatible meters	Coincidence box (WebiSmarts), DRM-3000, DPU-3, RAM DA 2000 and RAM R-200 (as RP-11)	[1]
Dimensions	340 mm long, ø70 mm	[1]
perating temperature	−10 to +50 °C	[1]
Weight	1.75 kg	[1]

Sources

[1] **PM-11 Detector data sheet**
Rotem Industries · datasheet · TDS, Technical Data; TDS p. 1; Specifications – Size · checked 2026-10-16
https://rotem-radiation.co.il/wp-content/uploads/2025/05/PM-11-Detector-16102023.pdf

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.