ROTEM

# PM-33 Detector

## Highly sensitive 3 × 3 inch NaI(Tl) probe for environmental gamma monitoring

Gamma scintillation probe with a hermetically sealed 3 × 3 inch NaI(Tl) crystal and photomultiplier. It can be used as an external detector for the RAM DA-2000, and together with the TeleMeter it becomes an extremely sensitive portable environmental monitor measuring from background to 15 mSv/h.



Energy range
**Gamma above 50 keV** [1]

Measurement range
**Stand-alone: background to 10 µSv/h; as environmental monitor with the TeleMeter: background to 15 mSv/h** [1]

Count-rate range
**0–50,000 cps** [1]

## Specifications

| | | |
|---|---|---|
| **DETECTOR** | | |
| Detector | NaI(Tl), 3 × 3 in | [1] |
| **MEASURING RANGE** | | |
| Energy range | Gamma above 50 keV | [1] |
| Sensitivity | 4,500 cps per µSv/h ($^{137}$Cs) | [2] |
| Measurement range | Stand-alone: background to 10 µSv/h; as environmental monitor with the TeleMeter: background to 15 mSv/h | [1] |
| Count-rate range | 0–50,000 cps | [1] |
| **MECHANICAL** | | |
| Dimensions | Length 365 mm, width 105 mm | [1] |
| Weight | 2.95 kg (6.5 lb) | [1] |
| **ENVIRONMENT & RATINGS** | | |
| perating temperature | −10 to +50 °C | [1] |
| **ORDERING & ACCESSORIES** | | |
| Ordering code | BAK-1515 | [1] |

## Sources

[1] **PM-33 Detector data sheet**
Rotem Industries · datasheet · TDS · checked 2026-10-16
https://rotem-radiation.co.il/wp-content/uploads/2025/05/PM-33-Detector-03062018.pdf

[2] **PM-33 Detector**
Rotem Industries · product-page · Product page – Technical Information · checked 2026-10-16
https://rotem-radiation.co.il/solution/pm-33-detector/

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.