ROTEM

GM-41 Detector

GM gamma detector for high fields, e.g. in cyclotron bunkers and hot cells

High-range gamma detector for measuring dose rates in relatively “hot” areas such as an unshielded cyclotron bunker or hot cells. It connects by cable up to 100 m and provides TTL pulses and status signals for identification, malfunction and overflow.



Detector	Measurement range	Energy range
GM tube ZP-1313 or equivalent [1]	**50 µSv/h – 1 Sv/h (5 mR/h – 100 R/h)** [1]	**50 keV – 1.3 MeV** [1]

Specifications

DETECTOR		
Detector	GM tube ZP-1313 or equivalent	[1]
MEASURING RANGE		
Measurement range	50 µSv/h – 1 Sv/h (5 mR/h – 100 R/h)	[1]
Energy range	50 keV – 1.3 MeV	[1]
Energy response	±15%	[1]
Angular dependence	Less than ±20% within ±45° of the preferred direction	[1]
ELECTRONICS & SIGNAL		
Signal outputs	TTL pulses (5 V, 5 ms); status: identification, malfunction, overflow; cable up to 100 m	[1]
MECHANICAL		
Dimensions	170 × ø38 mm	[1]
Weight	200 g (0.44 lb)	[1]
ENVIRONMENT & RATINGS		
perating temperature	−10 to +50 °C	[1]
ORDERING & ACCESSORIES		
Ordering code	BAK-1190	[2]

Sources

[1] **GM-41 Detector**
Rotem Industries · product-page · Product page – Product Specifications · checked 2026-10-16
https://rotem-radiation.co.il/solution/area-gamma-detector-gm-41/

[2] GM-41 Gamma Detector data sheet
Rotem Industries · datasheet · TDS · checked 2026-10-16
https://rotem-radiation.co.il/wp-content/uploads/2026/02/GM-41-Detector.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.