ROTEM

Wide Range External Gamma Beta Detector

Smart wide-range gamma and beta detector for WebiSmarts, 0.5 µSv/h – 10 Sv/h

Smart external detector for WebiSmarts that stores its calibration and configuration parameters in internal memory, so that detectors can easily be swapped. It contains two GM tubes and covers 0.5 µSv/h – 10 Sv/h.



Detector	Measurement range	Energy range
GM tubes ZP-1301 and ZP-1400 (or equivalent) [1]	**.5 µSv/h – 10 Sv/h (50 µR/h – ,000 R/h)** [1]	**Gamma 50 keV – 2 MeV** [1]

Specifications

DETECTOR		
Detector	GM tubes ZP-1301 and ZP-1400 (or equivalent)	[1]
PERFORMANCE		
Accuracy	±10% of reading within the measuring range	[1]
MEASURING RANGE		
Measurement range	0.5 µSv/h – 10 Sv/h (50 µR/h – 1,000 R/h)	[1]
Sensitivity	17 cps per mR/h (low range); 0.3 cps per mR/h (high range)	[1]
Energy range	Gamma 50 keV – 2 MeV	[1]
CONNECTIVITY & INTERFACE		
Communication	RS-485; cable up to 100 m	[1]
MECHANICAL		
Dimensions	254 × ø33 mm	[1]
Weight	280 g (0.62 lb)	[1]
ENVIRONMENT & RATINGS		
perating temperature	−10 to +50 °C	[1]
ORDERING & ACCESSORIES		
Ordering code	BAK-3599	[1]
GENERAL		
Functions	Gamma and beta; supplied with a protective cap	[2]

Sources

[1] **Wide Range External Gamma Beta Detector data sheet**
Rotem Industries · datasheet · TDS · checked 2026-10-16
https://rotem-radiation.co.il/wp-content/uploads/2026/03/BAK-3599-Wide-Range-External-Gamma-Beta-Detector-2....

[2] **Wide Range External Gamma Beta Detector**
Rotem Industries · product-page · Product page · checked 2026-10-16
https://rotem-radiation.co.il/solution/wide-range-external-gamma-beta-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.