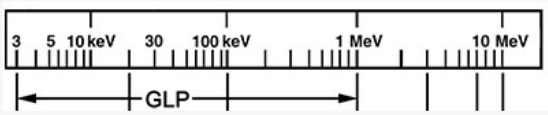
ORTEC

GLP plana HPGe-detektorer

HPGe gamma detector

Small planar HPGe detectors for low-energy photons, X-rays and applications where timing performance matters.



Energy range
Approximately 5–300 keV [1]

Active area
Nominally 80–1,000 mm², model-dependent [1]

Energy resolution at 122 keV
FWHM maximum limits 0.51–0.63 keV for the tabulated models [2]

Specifications

DETECTOR		
Detector type	Planar HPGe (LEPS)	[1]
Active area	Nominally 80–1,000 mm², model-dependent	[1]
Crystal thickness	7–13 mm for the models in the guide	[2]
PERFORMANCE		
Energy resolution at 122 keV	FWHM maximum limits 0.51–0.63 keV for the tabulated models	[2]
Energy resolution at 5.9 keV	FWHM maximum limits 0.19–0.41 keV, model-dependent	[2]
MEASURING RANGE		
Energy range	Approximately 5–300 keV	[1]
ELECTRONICS & SIGNAL		
Preamplifier	Optional POF or special feedback resistor for high rates	[1]
MECHANICAL		
Crystal diameter	10–36 mm, model-dependent	[1]
Endcap diameter	70 mm (nominal)	[2]
ORDERING & ACCESSORIES		
Cryostat configurations	PopTop or Streamline	[2]
Bias control	SMART-1 (-SMN), optional	[1]
Cooling and accessories	Cryostat and dewar or other cooling device required for operation; not included with the detector. A cryostat must be ordered with a Streamline detector.	[2]

Models

Model	Active diameter	Active area	Crystal depth	Energy resolution at 5.9 keV
GLP-1007	10 mm (nominal) [2]	80 mm² (nominal) [2]	7 mm (nominal) [2]	≤ 0.19 keV FWHM [2]
GLP-1610	16 mm (nominal) [2]	200 mm² (nominal) [2]	10 mm (nominal) [2]	≤ 0.22 keV FWHM [2]
GLP-2510	25 mm (nominal) [2]	500 mm² (nominal) [2]	10 mm (nominal) [2]	≤ 0.35 keV FWHM [2]
GLP-2513	25 mm (nominal) [2]	500 mm² (nominal) [2]	13 mm (nominal) [2]	≤ 0.32 keV FWHM [2]
GLP-3210	32 mm (nominal) [2]	800 mm² (nominal) [2]	10 mm (nominal) [2]	≤ 0.38 keV FWHM [2]
GLP-3213	32 mm (nominal) [2]	800 mm² (nominal) [2]	13 mm (nominal) [2]	≤ 0.36 keV FWHM [2]
GLP-3610	36 mm (nominal) [2]	1000 mm² (nominal) [2]	10 mm (nominal) [2]	≤ 0.41 keV FWHM [2]
GLP-3613	36 mm (nominal) [2]	1000 mm² (nominal) [2]	13 mm (nominal) [2]	≤ 0.38 keV FWHM [2]

Model	Energy resolution at 122 keV	Beryllium window thickness	Ordering configurations
GLP-1007	≤ 0.51 keV FWHM [2]	0.1 mm (nominal); while manufacturer supplies last [2]	GLP-1007P4 (PopTop) / GLP-1007 (Streamline) [2]
GLP-1610	≤ 0.56 keV FWHM [2]	0.1 mm (nominal); while manufacturer supplies last [2]	GLP-1610P4 (PopTop) / GLP-1610 (Streamline) [2]
GLP-2510	≤ 0.58 keV FWHM [2]	0.25 mm (nominal) [2]	GLP-2510P4 (PopTop) / GLP-2510 (Streamline) [2]
GLP-2513	≤ 0.58 keV FWHM [2]	0.25 mm (nominal) [2]	GLP-2513P4 (PopTop) / GLP-2513 (Streamline) [2]
GLP-3210	≤ 0.61 keV FWHM [2]	0.25 mm (nominal) [2]	GLP-3210P4 (PopTop) / GLP-3210 (Streamline) [2]
GLP-3213	≤ 0.60 keV FWHM [2]	0.25 mm (nominal) [2]	GLP-3213P4 (PopTop) / GLP-3213 (Streamline) [2]
GLP-3610	≤ 0.63 keV FWHM [2]	0.25 mm (nominal) [2]	GLP-3610P4 (PopTop) / GLP-3610 (Streamline) [2]
GLP-3613	≤ 0.62 keV FWHM [2]	0.25 mm (nominal) [2]	GLP-3613P4 (PopTop) / GLP-3613 (Streamline) [2]

Sources

[1] GLP Series Planar HPGe Low Energy Radiation Detectors
ORTEC (AMETEK) · product-page · Product page intro; Feature list; Options · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/radiation-detectors/high-pu...

[2] GLP Series Planar HPGe Low-Energy Detector – Product Configuration Guide
ORTEC (AMETEK) · datasheet · p. 10, 'Ordering Information'; p. 1, Configuration Guidelines; p. 10, 'Ordering Information' (Endcap Diameter mm Nominal) · checked 2026-10-16
https://web.archive.org/web/20231020173012/https://www.ortec-online.com/-/media/ametekortec/brochures/g/glp....

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.