



HPGe Planar Detectors GPD

(Liquid Nitrogen cooled)

Application

Detection of Gamma and X-rays in nuclear energetics and environmental control, in industry and scientific research, in medicine and other applications.

Complete set (standard)

- HPGe planar detector
- Pre-amplifier with cooled input stage
- Dewar vessel
- Cable set

Accessories (optional)

- Multichannel Analyzer (Digital or Analog-Digital)
- Analytical Software packages:
 - quantitative and qualitative analysis
 - γ -spectra modeling & efficiency registration calculation for complex geometry objects
 - extended radionuclide library
- Liquid nitrogen storage and filling system
- Liquid nitrogen sensor and monitor
- Cable set extension

Features

- Built-in or Remote Pre-amplifier types are available depending on application
- Ability to increase energy rate to 20000 MeV/s
- Energy range from 3 keV to 1500 keV (2500 keV)
- Input window materials: Aluminum, Beryllium or Carbon-fiber
- Excellent peak symmetry & high resolution
- HV supply protection if detector is warm
- High count rate indicator
- Variable cryostat design modifications

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Specification

Model	Diameter, mm	Detector Sensitive Area		Energy resolution, eV	
		Area, mm ²	Thickness, mm	5.9 keV	122 keV
GPD - 05 145	5	20	6	145	465
GPD - 08 155	8	50	6	155	485
GPD - 12 165	12	100	7	165	490
GPD - 12 160	12	100	10	160	490
GPD - 16 180	16	200	11	180	495
GPD - 25 300	25	500	13	300	545
GPD - 36 360	36	1000	13	360	585
GPD - 36 300	36	1000	15	300	560
GPD - 45 400	45	1590	14	400	600
GPD - 50 450	50	2000	15	450	650
GPD - 50 600	50	2000	20	600	750
GPD - 50 460	50	2000	35	460	680
GPD - 60 500	60	2800	25	500	700
GPD - 70 560	70	3800	25	560	750
GPD - 70 600	70	3800	30	600	780
GPD - 80 620	80	5000	30	620	800

* Detectors with other parameters are available

Plenty of cryostat geometries available



Carbon fiber
input window

