



Well-type HPGe Detectors GWD

(Liquid Nitrogen cooled)

Application

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

Complete set (standard)

- HPGe Well-type detector
- Preamplifier 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
- Lead Shielding for cutting background
- Liquid nitrogen storage and filling system
- Liquid nitrogen sensor and monitor
- Cable set extension

Features

- 15% - 70% and higher efficiency HPGe Well-type detectors are available
- Sensitive volume available from 90 cm³ to 360 cm³
- Energy range from 20 keV to 10 MeV
- Well materials: Aluminum or Carbon-fiber
- Thin "dead" layer to provide excellent efficiency
- Built-in or Remote Preamplifier types are available depending on application
- Almost 4 π geometry measurement
- Low instrument background
- High energy rate up to 200000 MeV/s
- 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	Relative Efficiency, %	Well diameter	Nominal volume (cc)	Energy Resolution	
				FWHM 122 keV	FWHM 1332 keV
GWD - 15 20	15	10	90	1.1	2.0
GWD - 15 22	15	16	100	1.3	2.2
GWD - 20 20	20	10	110	1.1	2.0
GWD - 20 22	20	16	120	1.3	2.2
GWD - 25 22	25	10	130	1.1	2.2
GWD - 25 23	25	16	140	1.3	2.3
GWD - 30 22	30	10	150	1.2	2.2
GWD - 30 23	30	16	160	1.4	2.3
GWD - 35 22	35	10	170	1.2	2.2
GWD - 35 23	35	16	180	1.4	2.3
GWD - 40 22	40	10	190	1.2	2.2
GWD - 40 23	40	16	200	1.4	2.3
GWD - 60 23	60	10	280	1.45	2.3
GWD - 70 24	70	10	360	1.45	2.4
GWD - 70 24	70*	16	360	1.45	2.4

* Detectors with higher efficiency are available

Plenty of cryostat geometries available

