



P-type HPGe Coaxial Detectors GCD

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(liquid nitrogen cooled)



DESCRIPTION

High purity germanium detectors deliver outstanding energy resolution for precise gamma-ray spectroscopy. They are essential tools in nuclear research, environmental monitoring, homeland security, and medical diagnostics. With superior sensitivity and low background noise, these detectors enable accurate identification and quantification of radioactive isotopes, ensuring reliable results in critical applications.

FEATURES

- Relative efficiency: 10% - 160%
- Energy range: 40 keV - 10 MeV
- High resolution and symmetric peaks
- HV shutdown protection
- High count rate LED
- State-of-Health Preamplifier SHP by default
- Variety of cryostat geometries

COMPLETE SET

- HPGe coaxial detector (p-type),
- SHP Preamplifier with cooling input stage
- Cryostat
- Cooling system (Monolith/Nicole/LN2)
- Cable set

ADD-ONS

- Multi Channel Analyzer MCA
- Analysis Software GammaPRO
- Advanced software package MCC-MT
- Lead Shield
- Etc.

Model	Efficiency, %	Energy resolution		Peak / Compton ratio	Peak Shape	
		at 122 keV (eV)	at 1.33 MeV (keV)		FW.1M / FWHM	FW.02M / FWHM
GCD-10175	10	825	1.75	41:1	1.90	2.65
GCD-15180	15	825	1.80	46:1	1.90	2.65
GCD-20180	20	850	1.80	51:1	1.90	2.65
GCD-25185	25	850	1.85	55:1	1.90	2.65
GCD-30185	30	875	1.85	58:1	1.90	2.65
GCD-35190	35	875	1.90	60:1	1.90	2.65
GCD-40190	40	895	1.90	62:1	1.90	2.65
GCD-50190	50	895	1.90	64:1	1.90	2.65
GCD-60200	60	1000	2.00	68:1	2.00	3.00
GCD-70200	70	1000	2.00	73:1	2.00	3.00
GCD-80210	80	1000	2.10	77:1	2.00	3.00
GCD-100210	100	1000	2.10	81:1	2.00	3.00
GCD-120210	120	1000	2.10	83:1	2.00	3.00
GCD-140220	140	1100	2.20	86:1	2.00	3.00
GCD-160230	160	1150	2.20	88:1	2.00	3.00