



P-type HPGe Coaxial Detectors GCDX

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(with extended energy range)



DESCRIPTION

GCDX extended-range HPGe detectors deliver exceptional performance, functioning not only as standard coaxial detectors but also extending the energy range down to 3 keV. Their thin contact structure, combined with a beryllium or carbon fiber input window, ensures efficient detection of low-energy photons. The detector’s input window is seamlessly integrated into the end cap using advanced vacuum-sealed materials for optimal performance.

FEATURES

- Relative efficiency: 10% - 100%
- Energy range: 3 keV - 10 MeV
- Input window: Beryllium or Carbon-fiber
- HV shutdown protection
- High count rate LED
- Excellent peak symmetry and high resolution
- 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 5.9 keV (eV)	at 122 keV (eV)	at 1.33 MeV (keV)		FW.1M / FWHM	FW.02M / FWHM
GCDX-10175	10	400	720	1.75	41:1	1.90	2.65
GCDX-15180	15	450	740	1.80	46:1	1.90	2.65
GCDX-20180	20	460	760	1.80	51:1	1.90	2.65
GCDX-25185	25	480	775	1.85	55:1	1.90	2.65
GCDX-30185	30	500	800	1.85	58:1	1.90	2.65
GCDX-35190	35	550	830	1.90	60:1	1.90	2.65
GCDX-40190	40	600	850	1.90	62:1	1.90	2.65
GCDX-50190	50	620	875	1.90	64:1	1.90	2.65
GCDX-60200	60	670	900	2.00	68:1	2.00	3.00
GCDX-70200	70	700	950	2.00	73:1	2.00	3.00
GCDX-80210	80	750	950	2.10	77:1	2.00	3.00
GCDX-100210	100	800	1000	2.10	81:1	2.00	3.00