

HP(Ge) Spectrometer based on Coaxial Detector GCD (Liquid Nitrogen cooled)



Detection and analysis of Gamma-ray of environmental objects in nuclear energetics, products of industry and agriculture, medicine, etc.

FEATURES

- 10% - 160% efficiency HPGe p-type coaxial detectors are available;
- Energy range from 40 keV to 10 MeV;
- High efficiency of radiation detection;
- High energy rate up to 200000 MeV/sec;
- Excellent peak symmetry;
- Detection of radiation in any spatial orientation depending on cryostat modification;
- Manufacture in a portable cryostat is possible;
- Low background and Ultra - low background materials are available.

COMPLETE SET

- HP(Ge) coaxial detector (p-type);
- Preamplifier with cooling input stage;
- Cryostat;
- Dewar vessel;
- Spectrometric device "Multispectrum" or "DigiSpectrum" or "MS Hybrid";
- Emulation and analysis Software SpectraLineGP.

SPECIFICATIONS:

Model	Efficiency,%	Energy resolution		Peak/ Compton ratio	Peak Shape	
		122 keV (eV)	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	1200	2,10	77:1	2.00	3.00
GCD-100220	100	1200	2,20	81:1	2.00	3.00
GCD-120220	120	1200	2,20	83:1	2.00	3.00
GCD-140220	140	1200	2,20	86:1	2.00	3.00
GCD-160230	160	1250	2,30	88:1	2.00	3.00