



HPGe Hand Held Spectrometer HANDY

(Liquid Nitrogen cooled)

Application

Registration of Gamma and X-ray spectra in safeguard and homeland security, radiological control of environmental objects, materials and products of industry and farming, objects and plants of nuclear energetics, enterprises dealing with storage and processing of radioactive wastes

Complete set

- HPGe Planar or Coaxial detector
- Preamplifier with cooled input stage
- Multi Channel Analyzer
- Software package
- Cable set

Accessories

- Lead Shielding with collimators
- Hand-cart
- Hard-sided transport case
- Accessories: funnel for LN₂ filling, recharger, etc.

Features

- Minimal size and weight
- Can be placed in an ordinary case
- Opportunity of installation of planar or coaxial detectors
- Minimal time for reaching operating temperature (less than 1 hour)
- Minimal time for Dewar vessel emptying from remains of liquid nitrogen
- Convenience and simplicity of the device running and service
- Software features specially developed for:
 - Fuel rod enrichment level analysis
 - Plutonium content analysis in different fields of application

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Specification

Parameter	Value
Standard dimensions of planar detector	
Sensitive area, mm ²	500*
Thickness, mm	15
Energy resolution for 500 mm ² sensitive area detector at energy 122 keV, eV	560
Maximal efficiency of coaxial detector, %	8
Energy resolution for 8% efficient detector at energy 1.33 MeV, keV	1.8
Dewar vessel volume, l	0.6
Detector holding time, h	> 20
Time for reaching of operating temperature after liquid nitrogen filling, h	1
Maximum number of quantization levels of ADC	16k
Integral nonlinearity, %	0.05
Differential nonlinearity, %	< 1
Dimensions, mm	
Detection unit	270 x 190 x 195
Case	460 x 330 x 150
Weight, kg	
Detection unit	2.4
Case with spectrometer set (including detection unit)	6.5
Detector power supply	
Voltage, V	+/- 12
Current, mA (for each polarity)	35

* Planar Detectors are available with other sensitive area

The smallest ever

