

## Specification

Parameter	Value
Energy range, keV	50 - 3500
HPGe detector efficiency, %	38*
Energy resolution for 30% efficiency detector, keV at energy	
122 keV	1.0
1.33 MeV	1.9
Detection limit for <sup>137</sup> Cs radionuclide specific activity, measurement time 1 hour, Bq/m <sup>3</sup>	200
<sup>137</sup> Cs radionuclide specific activity measurement error for measurement time 1 hour, %	30
Integral nonlinearity, %	0.05
Instability of specific activity measurement from calibration source, %	10
Time of operation mode setting, h	0.5
Time of continuous operation, days	30

\* HPGe Detectors are available with efficiency from 10% to 160%



## Automated System for Water Activity Measurement

### Application

Automatic monitoring of gamma-ray radionuclide specific activity directly in water reservoirs in the regions of nuclear weapons testing, near nuclear storage, nuclear power plants and other objects of nuclear energetics

### Features

- High sensitivity of radionuclide activity detection
- Full autonomy of measurement station data transfer via radio channel or cable channel into the point of information receiving, processing and archiving
- Operation simplicity and system high reliability

### Complete set

Floating monitoring station that is situated on the platform on pontoon and contains:

- Gamma-ray spectrometer based on submerged high purity germanium or scintillator detector;
- Transmitter receiver;
- Microprocessor device for interfaces necessary for automatic operation, self-diagnostic, calibration;
- Backup accumulators;
- Accessories for station control, calibration.

Station for receiving, processing and archiving information including:

- Radio station;
- Decoding modem connection device with personal computer;
- Software for spectra description, nuclides identification, calculation of their specific activity;
- Device for information CD ROM recording.
- Metrological assurance, set of accessories and necessary instruments.

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