



GRM-260

HANDHELD GAMMA-RAY SPECTROMETER

Geological and geophysical survey
U, Th, K assays and mapping
Environmental radiation monitoring
Mineral exploration
Artificial radioisotopes searching
Laboratory rock studies



The GRM-260 is a small portable spectrometer for multichannel spectral analysis and sensitive dose rate measurements.

Handheld Gamma-Ray Spectrometer

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The GRM-260 is designed for field K, U, Th assays of rocks (calibrated in % K, ppm eU, ppm eTh) and for measurement of dose rate values (calibrated in nGy/h or Uequiv) coming either from natural or artificial radioisotopes in a wide range of gamma-energies.

The integrated, weatherproof handheld GRM-260 unit keeps most of the significant features of the bigger geophysical gamma-ray spectrometer GRS-2000 being suitable for use in geological, geophysical and environmental survey, industrial radioactivity monitoring and customs checking.

Both the measured spectrum and the concentration values (as well as the prompts for easy operation) are shown on the backlit graphic screen.

The tables of results can be stored in the internal memory of the instrument for next processing (profile measurement, mapping).

The GRM-260 can be alternatively operated from a user's PC. This possibility allows comfortable operation in field or in the laboratory, 256 channels registration of measured spectra and their sophisticated method of mathematic analysis. Thus the K, U, Th assays come more precise and the data storing capability loses limitation.

The GRM-260 is fed from rechargeable batteries.



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REPRESENTED BY:

Technical Specifications

MEASURING MODES:

- current indication of dose rate and K, eU, eTh concentrations (or cps in ROIs)
- profile measurement

DETECTOR:

- NaI(Tl) 2"x2" with photomultiplier and magnetic shield

GAMMA ENERGY RANGE:

- to 3 MeV

SPECTRUM STABILIZATION:

- ¹³⁷Cs (16 kBq)

SPECTRAL ANALYZER:

- 256 channels
- 4 ROIs
- conversion rate 40.000 imp./s

OPERATION:

- numeric keyboard (12 keys)
- graphic screen with backlight
- alternatively user's PC via RS232C channel

POWER SUPPLY:

- rechargeable 2.2 Ah NiCd cells

DIMENSIONS AND WEIGHT:

- 270 x 130 x 180 mm (length, width, height)
- 2.8 kg

AMBIENT CONDITIONS:

- -10 to +60 °C
- weatherproof



Standard accessories:

- ¹³⁷Cs 16 kBq reference source
- battery charger
- RS232C cable with 9/25 pin reduction
- software for data transfer and PC operation
- operating manual
- transport case

With reservations for changes