

Noble gas monitor UDG-03D



Measurement of volumetric activity of beta-emitting radioactive gases (argon, krypton, xenon), adapted to the measurement of the rapidly changing volume activity in various technological processes.

- Gamma background compensation
- Audible and visual alarm signals of the excess of preset thresholds
- Periodic calibration by means of standard beta-source

Reference standards

Nuclear: IEC 60761, IEC 62302

EMC: IEC 61010, IEC 61000-6-2

Seismic: IEC 60980

Physical characteristics

- Silicon detector, 2 pcs (for measurement and for background rejection)
- Air flow rate: 10 ÷ 100 l/min
- Operation temperature range minus 10 ÷ +50 °C

Measurement range:

- 104 ÷ 3.7·10¹⁰ Bq/m³

Energy range:

- 60 ÷ 3000 keV

Electrical characteristics

- Power supply: 12.0 V
- Interface: RS-485
- Programmable relay output (SPDT relay)
- Analog output 4 ÷ 20 mA (optional)

Mechanical characteristics

- Protection index IP 65
- Paint decontaminable

Overall dimensions, weight:

- 376×258×230 mm, 23 kg

Accessory

<u>Pump unit BN-01</u>	Pump unit is ensures air sampling by feeding the air from work places and/or ventilation systems to the aerosol and gas monitors.
<u>BI-2: External display & alarm unit</u>	<ul style="list-style-type: none">• Display of data received from equipment of Automated Radiation Monitoring System (ARMS)• Audible and visual alarms on exceeding preset thresholds of the ARMS equipment• individual threshold setting for each measurement channel• Audible alarm: 80-100 dB at a distance of 1 m• Visual alarm: red, yellow, green
<u>BAS/BAS-1s: external alarm</u>	Generation of audible and visual signals of the excess of preset thresholds RMS monitors
<u>External display unit</u>	Display of data received from equipment of Automated Radiation Monitoring System (ARMS)