

## UDG-1B: noble gas monitor



Continuous automatic monitoring of the beta-emitting radioactive gases concentration in the working air and in the air in ventilation ducts and stacks.

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

### Measurement range:

- 104 ÷ 6·10<sup>9</sup> Bq/m<sup>3</sup>

### Energy range:

- 0.08 ÷ 3.0 MeV

### Electrical characteristics

- Power supply: 100 ÷ 250 V, 47 ÷ 440 Hz
- Interfaces: RS-232, 2x RS-485, Ethernet
- programmable relay output (SPDT relay)
- Analog output 4 ÷ 20 mA (optional)

### Mechanical characteristics

- Protection index: IP 65
- Paint: decontaminable

### Overall dimensions, weight:

- Stationary version: 395×240×304 mm, 29.5 kg
- Mobile version with pump unit BN-1: 395×468×950 mm, 54.3 kg

### Alarm:

- Sound alarm: 80 ÷ 100 dBA at distance 1 m
- Visual alarm: green, yellow, red
- Connection of the external alarm unit "BAS" type

### Versions:

- Stationary version
- Stationary version with pump unit BN-1
- Mobile version with pump unit BN-1

### Accessory

<a href="#"><u>Pump unit BN-01</u></a>	Pump unit is ensures air sampling by feeding the air from work places and/or ventilation systems to the aerosol and gas monitors.
<a href="#"><u>BI-2: External display &amp; alarm unit</u></a>	<ul style="list-style-type: none"><li>• Display of data received from equipment of Automated Radiation Monitoring System (ARMS)</li><li>• Audible and visual alarms on exceeding preset thresholds of the ARMS equipment</li></ul>

	<ul style="list-style-type: none"><li>• individual threshold setting for each measurement channel</li><li>• Audible alarm: 80-100 dB at a distance of 1 m</li><li>• Visual alarm: red, yellow, green</li></ul>
<a href="#"><u>BAS/BAS-1s: external alarm</u></a>	Generation of audible and visual signals of the excess of preset thresholds RMS monitors
<a href="#"><u>External display unit</u></a>	Display of data received from equipment of Automated Radiation Monitoring System (ARMS)