RADIATION AREA / CONTAMINATION MONITORING SYSTEM

UIM-MD

DOZA

UIM-D AREA MONITOR PROVIDES SOLUTIONS FOR DIFFERENT RADIATION PROTECTION PROBLEMS DEPENDING OF THE CHOSEN DETECTOR UNITS

FEATURES:

- Individual threshold setting for each measurement channel
- Continuous area and process monitoring
- Collects & displays data from two measurement channels (units with RS-485 or analog pulses)
- Audible and visual alarms on exceeding preset thresholds or status of connected devices
- Individual threshold setting for each measurement channel

Activation of the external alarm or executive devices when any threshold is exceeded
The wide panel displays the following information:

- Values of measured parameters as $min^{-1} \cdot cm^{-2}$, $s^{-1} \cdot cm^{-2}$, μSv/h
- Diagnostic information about the status of connected devices
- Current date and time
- Position of measured values relative to the thresholds in the form of scales with green, yellow and red zones
- Time history (trend) for each measured value

SYSTEM CONFIGURATION

Display unit UIM-3D

- Collects & displays data from two measurement channels, generates audible and visual alarms
- Displays data in CPM or in units per user's choice (μSv/h, $min^{-1} \cdot cm^{-2}$, etc.)
- Wireless connection to PC
- Can be mounted on a wall or on a table
- Shows measurement trends

Physical characteristics:

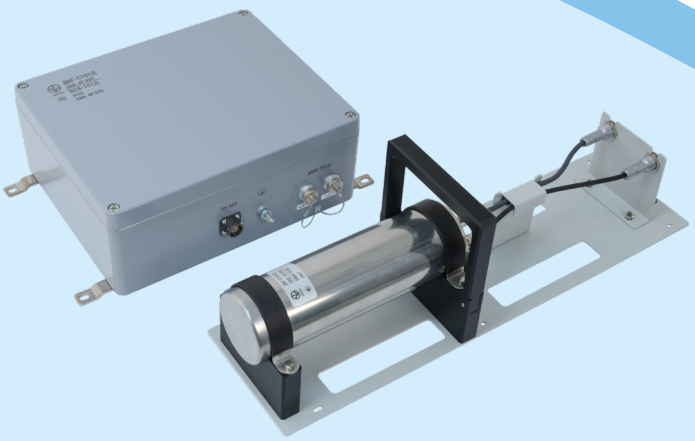
- Measurement range: count rate: up to 150 000 CPM
- Operating temperature range: −20 ÷ +50 ºC

Electrical characteristics:

- Power supply: 220 V , 50 Hz

Mechanical characteristics:

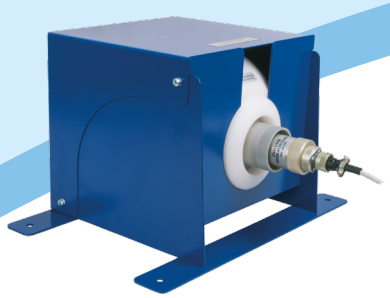
- Protection index: IP65
- Overall dimensions, weight: 221×172×85 mm, 3.9 kg



Photon Dosimeter DBG-S101D

Dosimeter of continuous measurement of ambient dose equivalent rate and the absorbed dose rate in air for X-ray and gamma radiation. Dosimeter consists of an ionization chamber module and an electrometric interface unit connected by a pair of electrometric cables.

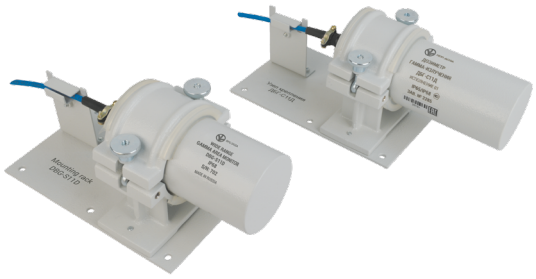
- Energy range: 0.05 ÷ 3.0 MeV
- ADER measurement range: $1 \cdot 10^{-5} \div 1 \cdot 10^{4}$ Sv/h
- ADR measurement range: $1 \cdot 10^{-5} \div 1 \cdot 10^{4}$ Gy/h



Neutron Area Monitor UDMN-100

Area Monitor to measure dose rate of neutron radiation from analogue and digital detector units/detecting device.

- Detected energy range: 0.025 eV ÷ 10.0 MeV.
- ADER measurement range of neutron radiation: $1 \cdot 10^{-7} \div 1 \cdot 10^{-1}$ Sv/h.



Wide Range Gamma Area Monitor DBG-S11D

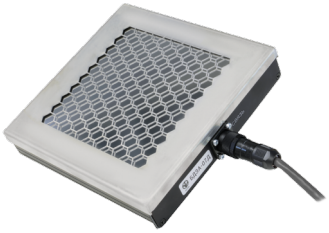
Area Monitor to continuous measure ambient dose equivalent rate (ADER) and absorbed dose rate (ADR) of gamma radiation.

- Energy range: 0.05 ÷ 3.0 MeV.
- ADER measurement range: 0.1 μSv/h ÷ 100 Sv/h.

Detector Unit BDZA-09D

Scintillation Detector Unit to measure flux density and surface activity of alpha radiation with sensitive surface area 465 cm^2.

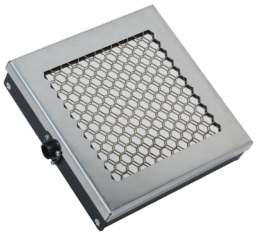
- Energy range of detected alpha radiation 4.0 ÷ 8.0 MeV.
- Measurement range of alpha flux density 0.1 ÷ $1 \cdot 10^5$ $min^{-1}cm^{-2}$.
- Measurement range of surface alpha activity of radionuclide ^{239}Pu: $3.4 \cdot 10^{-3} \div 3.4 \cdot 10^3$ $Bq \cdot cm^{-2}$



Detector Unit BDZA-07D

Scintillation Detector Unit to measure flux density and surface activity of alpha radiation, sensitive surface area 146.4 cm^2.

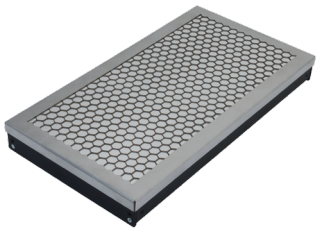
- Energy range of detected alpha radiation 4.0 ÷ 8.0 MeV.
- Measurement range of alpha flux density 0.1 ÷ $1 \cdot 10^5$ $min^{-1}cm^{-2}$.
- Measurement range of surface alpha activity of radionuclide ^{239}Pu: $1.0 \cdot 10^{-2} \div 3.4 \cdot 10^3$ $Bq \cdot cm^{-2}$.



Detector Unit BDZB-19D

Scintillation Detector Unit to measure flux density and surface activity of beta radiation, ADER of gamma radiation with sensitive surface area 146.4 cm^2.

- Energy range of detected beta radiation: maximum: 0.156 ÷ 3.54 MeV; average: 0.049 ÷ 1.508 MeV.
- Measurement range of beta flux density 0.1 ÷ $1 \cdot 10^6$ $min^{-1}cm^{-2}$.
- Measurement range of surface beta activity of radionuclide $^{90}Sr+^{90}Y$: $3.4 \cdot 10^2 \div 3.4 \cdot 10^4$ $Bq \cdot cm^{-2}$.



Detector Unit BDZB-18D

Scintillation Detector Unit to measure flux density and surface activity of beta radiation, ADER of gamma radiation with sensitive surface area 465 cm^2.

- Energy range of detected beta radiation: maximum: 0.156 ÷ 3.54 MeV; average: 0.049 ÷ 1.508 MeV.
- Measurement range of beta flux density 0.1 ÷ $5 \cdot 10^5$ $min^{-1}cm^{-2}$.
- Measurement range of surface beta activity of radionuclide $^{90}Sr+^{90}Y$: $3.4 \cdot 10^2 \div 1.7 \cdot 10^4$ $Bq \cdot cm^{-2}$.

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