



CALIBRATION CERTIFICATE

AT2327 Alarm DosimeterDate of calibration: 10.06.2022.SN: **452.000**Type: **BDKG-02**Measurement limits: **BDKG-02: γ 0.1 μ Sv/h – 10 Sv/h;**Measurement error: **BDKG-02: $\pm 15\%$**

Operating conditions:

- Air temperature +19,0 °C
- Atmospheric pressure 98,5 kPa
- Relative humidity 72,0 %
- Gamma radiation background 90,0 nSv/h

Calibration means:

- standard dosimetry facility AT-110, N 013 reg. N 40425-09, the Certificate of Compliance N C-B/15-11-2021/112536221 on 15.11.2021 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia);
- standard dosimetry facility AT-130, N 015, reg. N 44761-10, the Certificate of Compliance C-B/15-11-2021/112536213 on 15.11.2021 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia);
- standard gamma radiation Cs-137 source of OSGI type with 80,17 kBq activity, s/n №595;

Calibration data

BDKG-02 (γ) sn: 452.002

Dose rate at check point $H_0(10)$	Radiation source number	Distance to source, R, cm	Dose rate measurement at check point,					Relative gamma radiation dose rate measurement error $\theta_{npj}, \%$	Confidence limit of the intrinsic relative error $\Delta_i, \%$ during calibration	Limits of intrinsic relative error, % not above
			Back-ground, nSv/h	Measured value $\dot{H}_i(10)$			Average value, $H_i(10)$			
				H_1	H_2	H_3				
0,7 μ Sv/h	0HA	228.7	90,0	0,71	0,71	0,68	0,70	0,00	5,50	± 15
7 μ Sv/h	0HA	73.4	—	6,93	6,87	7,20	7,00	0,00	5,50	
70 μ Sv/h	9XK	158.8	—	69,0	70,7	70,3	70,0	0,00	5,50	
0.7 mSv/h	9XK	51,0	—	0,70	0,71	0,69	0,70	0,00	5,50	
7,0 mSv/h	043	343.4	—	7,05	6,92	7,04	7,00	0,00	4,40	
70 mSv/h	043	110.3	—	68,7	68,1	73,2	70,0	0,00	4,40	
0,7 Sv/h	163	227.7	—	0,69	0,70	0,71	0,70	0,00	4,40	
7 Sv/h	163	73.3	—	7,12	7,03	6,84	7,00	0,00	4,40	

Calibrated by:

V. Pisarenko_____
(signature)

Technical control:

N. Kurbatova_____
(signature)