ATOMTEX®
Instruments and Technologies for Nuclear Measurements and Radiation Monitoring

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CALIBRATION CERTIFICATE

Type: **Radiation monitor $type**

Date of calibration: 29.11.2021.

S/N: **1234**

Measurement limits of ambient x-ray gamma radiation:
AT1125A: γ 30 nSv/h – 100 mSv/h;

Measurement error:
AT1125A: ± 15 %;

Operating conditions:

- Air temperature +22.0 °C
- Atmospheric pressure 98,5 kPa
- Relative humidity 74.0 %
- Gamma radiation background 95.0 nSv/h

Calibration means:

- standard dosimetry facility AT-110, N 013, Cs-137, error 5%, the Certificate of Compliance N210/1426-2018 on 22.10.2018 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia);

- standard dosimetry facility AT-130, N 015, Cs-137-137, error 4 %, the Certificate of Compliance N210/ 1427-2018 on 23.10.2018 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia);

Calibration data

Radiation monitor 1125A s/n 1234

Dose rate at check point $\dot{H}_{oi}(10)$	Radiation source number	Distance to source, *R, cm*	Dose rate measurement at check point,					Relative gamma radiation dose rate measurement error θ_{npi}, %	Confidence limit of the intrinsic relative error Δ_i, % during calibration	Limits of intrinsic relative error, % not above
			Background, *nSv/h*	Measured value $\dot{H}^*_i(10)$			Average value, $H_i(10)$			
				H_1	H_2	H_3				
0,24 µSv/h	263	106.1	95.0	0.24	0.25	0.23	0.24	0.00	5.50	±15
0,7 µSv/h	0HA	230.1	95.0	0.71	0.68	0.71	0.70	0.00	5.50	
7 µSv/h	0HA	73.9	—	6.95	7.13	6.92	7.00	0.00	5.50	
70 µSv/h	9XK	159.8	—	69.6	69.3	71.1	70.0	0.00	5.50	
240 µSv/h	9XK	86.8	—	246	243	231	240	0.00	5.50	
0,7 mSv/h	9XK	51.3	—	0.71	0.72	0.67	0.70	0.00	5.50	
7 mSv/h	043	345.5	—	7.02	6.82	7.15	7.00	0.00	4.40	
70 mSv/h	043	111.0	—	68.1	69.0	72.9	70.0	0.00	4.40	

Calibrated by: V. Pisarenko _____ (signature)

Technical control: N. Kurbatova _____ (signature)