

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Státní ústav radiační ochrany, v.v.i.
CAB number 2391, SÚRO Calibration Laboratory
Bartošková 1450/28, 140 00 Praha 4

CMC for the field of measured quantity: Quantities of atomic and nuclear physics

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit	max	unit					
1	Air kerma rate in gamma radiation beams / Ionization chambers, dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value	5·10 ⁻⁹ Gy/s		to 1·10 ⁻⁸ Gy/s			3.0 % 2.4 % 2.1 %	Meter response comparison with reference meter reading; calculation	SOP 15	
2	Air kerma rate in X-ray beams / Ionization chambers, dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value	2·10 ⁻⁸ Gy/s		to 1·10 ⁻⁶ Gy/s			4.4 % 1.8 %	Meter response comparison with reference meter reading; calculation	SOP 15	
3	Air kerma in gamma radiation beams / Ionization chambers, dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value, passive integrating dosimeters	5·10 ⁻⁸ Gy		to 1·10 ⁻⁷ Gy			3.7 % 2.6 % 2.1 %	Meter response comparison with reference meter reading; calculation	SOP 15	
4	Air kerma in X-ray beams / Ionization chambers, dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value, passive integrating dosimeters	1·10 ⁻⁶ Gy		to 1·10 ⁻⁴ Gy			4.4 % 1.8 %	Meter response comparison with reference meter reading; calculation	SOP 15	
5	Personal dose equivalent rate, directional dose equivalent rate or ambient dose equivalent rate in gamma radiation beams / Dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value	5·10 ⁻⁹ Sv/s		to 1·10 ⁻⁸ Sv/s		H _p (0,07), H _p (3), H _p (10), H'(0,07), H'(3), H*(10)	5.0 % 4.7 % 4.5 %	Meter response comparison with reference meter reading; calculation; application of conversion coefficients from ISO 4037-3:2019	SOP 15	

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		min	unit	max	unit					
6	Personal dose equivalent rate, directional dose equivalent rate or ambient dose equivalent rate in X-ray beams / Dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value	2·10 ⁻⁸ Sv/s		1·10 ⁻⁶ Sv/s		H _p (0,07), H _p (3), H _p (10), H'(0,07), H'(3), H*(10)	6.0 % 4.4 %	Meter response comparison with reference meter reading; calculation; application of conversion coefficients from ISO 4037-3:2019	SOP 15	
7	Personal dose equivalent, directional dose equivalent or ambient dose equivalent in gamma radiation beams / Dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value, passive integrating dosimeters	5·10 ⁻⁸ Sv		1·10 ⁻⁷ Sv		H _p (0,07), H _p (3), H _p (10), H'(0,07), H'(3), H*(10)	5.4 % 4.8 % 4.5 %	Meter response comparison with reference meter reading; calculation; application of conversion coefficients from ISO 4037-3:2019	SOP 15	
8	Personal dose equivalent, directional dose equivalent or ambient dose equivalent in X-ray beams / Dosimetry chains with digital display of measured value, compact ionizing radiation meters with digital display of measured value, passive integrating dosimeters	1·10 ⁻⁶ Sv		1·10 ⁻⁴ Sv		H _p (0,07), H _p (3), H _p (10), H'(0,07), H'(3), H*(10)	6.0 % 4.4 %	Meter response comparison with reference meter reading; calculation; application of conversion coefficients from ISO 4037-3:2019	SOP 15	
		1·10 ⁻⁴ Sv		1·10 ⁰ Sv						

¹ Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

³ If the document identifying the calibration procedure is dated only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."