

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

Státní ústav jaderné, chemické a biologické ochrany, v.v.i.
Calibration Laboratory
Kamenná 71, 262 31 Milín

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

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min	jedn.	max	jedn.					
1	Radon activity concentration (in air) / Monitors of radon activity concentration and its instantaneous value including devices operating in step mode, interval monitors and devices measuring short-term and long-term average of radon activity concentration	0.1 kBq·m ⁻³	to	0.3 kBq·m ⁻³	15°C to 25 °C	2.1 %	Comparison with the reference atmosphere	AMS-LLRCH		
		0.15 kBq·m ⁻³	to	1 kBq·m ⁻³		5.2 %		AMS-R		
		1 kBq·m ⁻³	to	5 kBq·m ⁻³		4.2 %				
		5 kBq·m ⁻³	to	10 kBq·m ⁻³		4.0 %				
		10 kBq·m ⁻³	to	50 kBq·m ⁻³		4.2 %				
		50 kBq·m ⁻³	to	100 kBq·m ⁻³		3.6 %				
		100 kBq·m ⁻³	to	200 kBq·m ⁻³		3.9 %				
2	Equilibrium equivalent radon concentration / Monitors of equilibrium equivalent radon concentration and its instantaneous value including devices operating in step mode, pseudo-continuous monitors and devices measuring average of equilibrium equivalent radon concentration	200 kBq·m ⁻³	to	500 kBq·m ⁻³	15°C to 25 °C	3.9 %	Comparison with the reference atmosphere	AMS-E		
		500 kBq·m ⁻³	to	1,000 kBq·m ⁻³		3.8 %				
		0.05 kBq·m ⁻³	to	1 kBq·m ⁻³		6.4 %				
		1 kBq·m ⁻³	to	10 kBq·m ⁻³		4.3 %				
		10 kBq·m ⁻³	to	50 kBq·m ⁻³		4.2 %				
					4.2 %					
					4.1 %					

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- 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, 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 value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.
- 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)..