

Datum izdavanja dodatka: 30.12.2019.

Issue date of annex: 30.12.2019.

Zamjenjuje dodatak od: 22.04.2019.

Replaces Annex dated: 22.04.2019.

Dodatak Sertifikatu o akreditaciji sa akreditacionim brojem L_K 14.02

Annex to Accreditation Certificate - Accreditation Number L_K 14.02

Standard: MEST EN ISO/IEC 17025:2011

Datum dodjele / obnavljanja akreditacije

04.03.2014./ 02.03.2018.

Akreditacija važi do: 01.03.2022.

Accreditation is valid to: 01.03.2022.

Akreditovana laboratorija za kalibraciju

Accredited laboratory for calibration

Zavod za metrologiju

Sektor za metrološku sljedivost i državne etalone

Arsenija Boljevića b.b. Podgorica

Bureau of metrology

Sector of metrological traceability and national measurement standards

Arsenija Boljevića b.b. Podgorica

Područje akreditacije / Scope of accreditation:

Kalibracija mjerila mase

Kalibracija mjerila temperature i relativne vlažnosti

Kalibracija mjerila zapremine od stakla i mjerila zapremine sa klipom

Kalibracija etalona prelivnih pipeta i mjernih posuda

Kalibracija mjerila dužine

Kalibracija mjerila pritiska

Kalibracija etalona i mjerila električnih veličina, frekvencije i vremenskog intervala

Kalibracija mjernih uređaja za mjerenje koncentracije radona u vazduhu

Calibration of mass gauges

Calibration of temperature and relative humidity gauges

Calibration of laboratory glassware and piston-operated volumetric apparatus

Calibration of etalons of over flow pipettes and standard capacity measures

Calibration of length gauges

Calibration of pressure gauges

Calibration of standards and instruments for measurement of electrical quantities, frequency and time interval

Calibration of instruments for measurement of radon concentration in the air

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Detaljan obim akreditacije/ Detailed scope of accreditation

Laboratorija za masu, Arsenija Boljevića b.b. Podgorica

* Metoda kalibracije se sprovodi na terenu

** Metoda kalibracije se sprovodi u Laboratoriji i na terenu

Red Broj No	Oblast kalibracije <i>Calibration field</i>	Mjerna veličina/predmet kalibracije <i>Measured/ Calibration item</i>	Mjerno područje <i>Measurement range</i>	Mogućnost mjerenja i kalibracije ¹ <i>Calibration and Measurement Capability CMC¹</i>	Metode kalibracije <i>Calibration methods</i>
1.	Masa <i>Mass</i>	Konvencionalna masa/Tegovi klase tačnosti E2, F1, F2, M1, M2, M3 <i>Conventional mass /Weights of Classes E2, F1, F2, M1, M2, M3</i>	1 mg	0,0020 mg	OIML R111/ Izdanje 2004 <i>OIML R111/ Edition 2004</i>
			2 mg	0,0020 mg	
			5 mg	0,0020 mg	
			10 mg	0,0025 mg	
			20 mg	0,0030 mg	
			50 mg	0,0040 mg	
			100 mg	0,0050 mg	
			200 mg	0,0060 mg	
			500 mg	0,0080 mg	
			1 g	0,010 mg	
			2 g	0,012 mg	
			5 g	0,016 mg	
			10 g	0,020 mg	
			20 g	0,025 mg	
			50 g	0,030 mg	
			100 g	0,050 mg	
			200 g	0,10 mg	
			500 g	0,25 mg	
			1 kg	0,50 mg	
			2 kg	1,0 mg	
5 kg	2,5 mg				
10 kg	5,0 mg				

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2.	Masa <i>Mass</i>	Konvencionalan a masa/Tegovi slobodnih nazivnih masa <i>Conventional mass/Weights with free nominal masses</i>	$1 \text{ g} \geq m_c$	0,016 mg	Vlastita procedura <i>In house procedure</i> QP.5.4/LM-02, Izdanje / Issue 02/03, 2017-10-10
			$1 \text{ g} < m_c \leq 10 \text{ g}$	0,030 mg	
			$10 \text{ g} < m_c \leq 100 \text{ g}$	0,066 mg	
			$100 \text{ g} < m_c \leq 205 \text{ g}$	0,140 mg	
			$205 \text{ g} < m_c \leq 220 \text{ g}$	9,6 mg	
			$220 \text{ g} < m_c \leq 500 \text{ g}$	10,6 mg	
			$500 \text{ g} < m_c \leq 1010 \text{ g}$	11,8 mg	
			$1010 \text{ g} < m_c \leq 5000 \text{ g}$	12,1 mg	
			$5 \text{ kg} < m_c \leq 10 \text{ kg}$	14,3 mg	
			$10 \text{ kg} < m_c \leq 20 \text{ kg}$	19,2 mg	
			$20 \text{ kg} < m_c \leq 30 \text{ kg}$	24,8 mg	
			$30 \text{ kg} < m_c \leq 50 \text{ kg}$	35,2 mg	
3.	Masa <i>Mass</i>	Vage <i>Weighing instruments</i>	$m \leq 0,02 \text{ g}$	0,0050 mg	EURAMET/cg18/ v.4.0 (11/2015) ** <i>Guidelines on the Calibration of Non-Automatic Weighing Instruments rev.04</i>
			$0,02 \text{ g} < m \leq 0,05 \text{ g}$	0,0064 mg	
			$0,05 \text{ g} < m \leq 0,1 \text{ g}$	0,0079 mg	
			$0,1 \text{ g} < m \leq 0,2 \text{ g}$	0,0095 mg	
			$0,2 \text{ g} < m \leq 0,5 \text{ g}$	0,013 mg	
			$0,5 \text{ g} < m \leq 1 \text{ g}$	0,016 mg	
			$1 \text{ g} < m \leq 2 \text{ g}$	0,019 mg	
			$2 \text{ g} < m \leq 5 \text{ g}$	0,025 mg	
			$5 \text{ g} < m \leq 10 \text{ g}$	0,033 mg	
			$10 \text{ g} < m \leq 20 \text{ g}$	0,041 mg	
			$20 \text{ g} < m \leq 50 \text{ g}$	0,061 mg	
			$50 \text{ g} < m \leq 100 \text{ g}$	0,13 mg	

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3.	Masa <i>Mass</i>	Vage <i>Weighing instruments</i>	$100\text{ g} < m \leq 150\text{ g}$	0,18 mg	EURAMET/cg18/ v.4.0 (11/2015) ** Guidelines on the Calibration of Non-Automatic Weighing Instruments rev.04
			$150\text{ g} < m \leq 200\text{ g}$	0,21 mg	
			$200\text{ g} < m \leq 220\text{ g}$	0,25 mg	
			$220\text{ g} < m \leq 500\text{ g}$	0,56 mg	
			$500\text{ g} < m \leq 520\text{ g}$	0,59 mg	
			$520\text{ g} < m \leq 600\text{ g}$	2,3 mg	
			$600\text{ g} < m \leq 1,0\text{ kg}$	2,6 mg	
			$1,0\text{ kg} < m \leq 1,2\text{ kg}$	2,7 mg	
			$1,2\text{ kg} < m \leq 2,0\text{ kg}$	21 mg	
			$2,0\text{ kg} < m \leq 5,0\text{ kg}$	23 mg	
			$5,0\text{ kg} < m \leq 10,1\text{ kg}$	28 mg	
			$10,1\text{ kg} < m \leq 15,0\text{ kg}$	0,22 g	
			$15,0\text{ kg} < m \leq 20,1\text{ kg}$	0,22 g	
			$20,1\text{ kg} < m \leq 30,0\text{ kg}$	0,30 g	
			$30,0\text{ kg} < m \leq 50,0\text{ kg}$	0,37 g	
			$50,0\text{ kg} < m \leq 64,1\text{ kg}$	0,44 g	
			$64,1\text{ kg} < m \leq 77,0\text{ kg}$	2,2 g	
			$77,0\text{ kg} < m \leq 100\text{ kg}$	8,8 g	
			$100\text{ kg} < m \leq 150\text{ kg}$	13 g	
$150\text{ kg} < m \leq 200\text{ kg}$	18 g				
$200\text{ kg} < m \leq 300\text{ kg}$	27 g				
$300\text{ kg} < m \leq 400\text{ kg}$	43 g				

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3.	Masa <i>Mass</i>	Vage <i>Weighing instruments</i>	$400 \text{ kg} < m \leq 500 \text{ kg}$	53 g	EURAMET/cg18/ v.4.0 (11/2015) ** Guidelines on the Calibration of Non-Automatic Weighing Instruments rev.04
			$500 \text{ kg} < m \leq 600 \text{ kg}$	63 g	
			$600 \text{ kg} < m \leq 700 \text{ kg}$	82 g	
			$700 \text{ kg} < m \leq 800 \text{ kg}$	89 g	
			$800 \text{ kg} < m \leq 900 \text{ kg}$	97 g	
			$900 \text{ kg} < m \leq 1000 \text{ kg}$	106 g	
			$1000 \text{ kg} < m \leq 1100 \text{ kg}$	115 g	
			$1100 \text{ kg} < m \leq 1200 \text{ kg}$	124 g	
			$1200 \text{ kg} < m \leq 1300 \text{ kg}$	133 g	
			$1300 \text{ kg} < m \leq 1400 \text{ kg}$	142 g	
			$1400 \text{ kg} < m \leq 1500 \text{ kg}$	151 g	
			$1500 \text{ kg} < m \leq 1600 \text{ kg}$	192 g	
			$1600 \text{ kg} < m \leq 1700 \text{ kg}$	200 g	
			$1700 \text{ kg} < m \leq 1800 \text{ kg}$	208 g	
			$1800 \text{ kg} < m \leq 1900 \text{ kg}$	216 g	
$1900 \text{ kg} < m \leq 2000 \text{ kg}$	222 g				