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

AVL Moravia s.r.o.
CAB number 2385, Calibration Laboratory
Mostecká 992/26, Husovice, 614 00 Brno

Calibration laboratory locations:

1. **Workplace Brno** Mostecká 992/26, Husovice, 614 00 Brno
2. **Workplace Hranice** Tovární 605, Hranice I – Město, 753 01 Hranice

CMC for the field of measured quantity: Length

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*	Length / Roller diameter of dynamometers for vehicle testing	1.2	m	1.5	m	Diameter of roller determined from circumference length	0.09 mm	Direct measurement by diametrical tape	AW-02-1019	2

[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).

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CMC for the field of measured quantity: Mechanical motion

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min	unit		max	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1*	Velocity on the roller surface / Dynamometers for vehicle testing	1 $km.h^{-1}$	to	300 $km.h^{-1}$	891.2 Hz to 267.3 kHz	0.021 % + 0.0039 $km.h^{-1}$	Calculation based on the specified reference speed and roller diameter	AW-02-1016	2
2*	Digital speed meters, speed sensors, stroboscopes - optically	1 min^{-1}	to	100,000 min^{-1}	1 pulse per revolution	0.006 %	Comparison with a standard speed meter	AW-02-1007	1
	Pulsed (IRC sensor)	10 min^{-1}	to	30,000 min^{-1}	0.001 kHz to 100 kHz	0.006 %			
3*	Speed sensors with a high number of pulses per revolution / Dynamometers for vehicle testing	0 min^{-1}	to	500 min^{-1}	0.0 kHz to 102.4 kHz	0.000036 % + 0.0058 min^{-1}	Comparison with a standard counter	AW-02-1007	2
		500 min^{-1}	to	1,000 min^{-1}	102.4 kHz to 204.8 kHz	0.00010 % + 0.0055 min^{-1}			
		1,000 min^{-1}	to	1,500 min^{-1}	204.8 kHz to 307.2 kHz	0.00016 % + 0.0050 min^{-1}			
		1,500 min^{-1}	to	2,000 min^{-1}	307.2 kHz to 409.6 kHz	0.00019 % + 0.0044 min^{-1}			
		2,000 min^{-1}	to	2,500 min^{-1}	409.6 kHz to 512.0 kHz	0.00022 % + 0.0039 min^{-1}			
4*	Air flow velocity/ Fan for motor vehicle tests	10 $km.h^{-1}$	to	140 $km.h^{-1}$		2.44 % + 0.82 $km.h^{-1}$	Direct measurement by a standard anemometer	AW-02-1017	2

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CMC for the field of measured quantity: Force

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min	unit		max	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1*	Force on the roller surface / Dynamometers for vehicle testing	500	N	to	25,000	N		0.023 % + 0.026 N	Calculation based on the specified reference torque and roller diameter	AW-02-1015	2
2*	Torque / Dynamometers for rotating machines tests	0.01	Nm	to	10	Nm		0.2 %	Comparison using reference weights and calibration arms	AW-02-1011	1
		10	Nm	to	20	Nm		0.1 %			
		20	Nm	to	100	Nm		0.075 %			
		100	Nm	to	10,000	Nm		0.05 %			
3*	Torque / Dynamometers for vehicle testing	300	Nm	to	15,000	Nm		0.031 % + 0.014 Nm	Comparison using reference weights and calibration lever arms	AW-02-1011	2

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CMC for the field of measured quantity: Temperature

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*	Resistance and thermoelectric temperature sensors			0	°C	Sensors with a diameter up to 9.5 mm and a length up to 102 mm	0.3 °C	Generation by crushed ice	AW-02-1010	1
		35	°C to	100	°C		0.5 °C	Generation by standard calibration furnace		
		100	°C to	200	°C		0.7 °C			
		200	°C to	350	°C		1 °C			

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CMC for the field of measured quantity: Electrical quantities

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]	Loca-tion
		min	unit	max	unit					
1*	DC voltage / Voltmeters, multimeters and inspection devices	0	mV	200	mV		0.0044 % + 5.3µV	Generation by a standard calibrator	AW-02-1003	1
		0.2	V	2	V		0.0044 % + 7.5µV			
		2	V	20	V		0.0036 % + 68 µV			
		20	V	200	V		0.0044 % + 750 µV			
		200	V	1025	V		0.0044 % + 7.5 mV			
	DC voltage / Sources and calibrators	0	mV	100	mV		0.0043 % + 4.8 µV	Direct measurement by a standard multimeter	AW-02-1003	
		100	mV	1,000	mV		0.0029 % + 11 µV			
		1	V	10	V		0.0028 % + 71 µV			
		10	V	100	V		0.0044 % + 920 µV			
		100	V	1,000	V		0.0048 % + 14 mV			
2*	DC current / Ammeters, multimeters, clamp meters and current sensors, current / current converters, current / voltage converters	0	µA	200	µA		0.014 % + 0.049 µA	Generation by a standard calibrator	AW-02-1004	1
		0.2	mA	2	mA		0.012 % + 0.067µA			
		2	mA	20	mA		0.0065 % + 0.51µA			
		20	mA	200	mA		0.0081 % + 5.2 µA			
		0.2	A	2	A		0.013 % + 64 µA			
		2	A	30	A		0.049 % + 0.71 mA			
		30	A	1,500	A		0.35 %	Generation by a standard calibrator with a multi-threaded coil		

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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]	Loca-tion
		min	unit	max	unit					
	DC current / Sources and calibrators							Direct measurement by a standard multimeter	AW-02-1004	
		0 µA	to	100 µA			0.058 % + 31 nA			
		0.1 mA	to	1 mA			0.058 % + 72 nA			
		1 mA	to	10 mA			0.058 % + 2.4 µA			
		10 mA	to	100 mA			0.058 % + 7.8 µA			
		100 mA	to	400 mA			0.058 % + 50 µA			
		0.4 A	to	1 A			0.058 % + 0.26 mA			
		1 A	to	3 A			0.12 % + 1.8 mA			
		3 A	to	10 A			0.18 % + 4.2 mA			
3*	AC voltage / Voltmeters, multimeters and inspection devices							Generation by a standard calibrator	AW-02-1003	1
		1 mV	to	200 mV		10 Hz to 45 Hz	0.29 % + 84 µV			
						45 Hz to 1,000 Hz	0.049 % + 38 µV			
						1 kHz to 20 kHz	0.12 % + 59 µV			
						20 kHz to 100 kHz	0.46 % + 0.15 mV			
						100 kHz to 500 kHz	0.97 % + 0.52 mV			
		0.2 V	to	2 V		10 Hz to 45 Hz	0.29 % + 0.6 mV			
						45 Hz to 1,000 Hz	0.049 % + 0.19 mV			
						1 kHz to 20 kHz	0.097 % + 0.24 mV			
						20 kHz to 100 kHz	0.36 % + 3.4 mV			
						100 kHz to 500 kHz	0.55 % + 6.5 mV			
		2 V	to	20 V		10 Hz to 45 Hz	0.29 % + 5.3 mV			
						45 Hz to 1,000 Hz	0.046 % + 1.9 mV			
						1 kHz to 20 kHz	0.081 % + 2.4 mV			
						20 kHz to 100 kHz	0.29 % + 55 mV			

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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]	Loca-tion
		min	unit	max	unit					
		20 V	to	200 V		30 Hz to 45 Hz	0.065 % + 35 mV			
						45 Hz to 1,000 Hz	0.049 % + 17 mV			
						1 kHz to 20 kHz	0.12 % + 68 mV			
		200 V	to	1,020 V		30 Hz to 45 Hz	0.065 % + 0.36 V			
						45 Hz to 1,000 Hz	0.049 % + 0.21 V			
						1 kHz to 20 kHz	0.2 % + 0.73 V			
	AC voltage / Sources and calibrators	1 mV	to	100 mV		3 Hz to 5 Hz	1.2 % + 0.059 mV	Direct measurement by a standard multimeter	AW-02-1003	
						5 Hz to 10 Hz	0.41 % + 0.059 mV			
						10 Hz to 20 kHz	0.07 % + 0.049 mV			
						20 kHz to 50 kHz	0.14 % + 0.064 mV			
						50 kHz to 100 kHz	0.7 % + 0.12 mV			
						100 kHz to 300 kHz	4.7 % + 0.72 mV			
		0.1 V	to	1 V		3 Hz to 5 Hz	1.2 % + 0.45 mV			
						5 Hz to 10 Hz	0.41 % + 0.45 mV			
						10 Hz to 20 kHz	0.07 % + 0.35 mV			
						20 kHz to 20 kHz	0.14 % + 0.59 mV			
						50 kHz to 100 kHz	0.7 % + 0.94 mV			
						100 kHz to 300 kHz	4.7 % + 0.77 mV			
		1 V	to	10 V		3 Hz to 5 Hz	1.2 % + 4.5 mV			
						5 Hz to 10 Hz	0.41 % + 4.5 mV			
						10 Hz to 20 kHz	0.07 % + 3.5 mV			
						20 kHz to 50 kHz	0.14 % + 5.9 mV			
						50 kHz to 100 kHz	0.7 % + 9.4 mV			
						100 kHz to 300 kHz	4.7 % + 58 mV			

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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]	Loca-tion
		min	unit	max	unit					
		10 V	to	100 V		3 Hz to 5 Hz	1.2 % + 45 mV			
						5 Hz to 10 Hz	0.41 % + 45 mV			
						10 Hz to 20 kHz	0.07 % + 36 mV			
						20 kHz to 50 kHz	0.14 % + 59 mV			
						50 kHz to 100 kHz	0.7 % + 95 mV			
						100 kHz to 300 kHz	4.7 % + 0.77 V			
		100 V	to	1,000 V		3 Hz to 5 Hz	1.2 % + 0.27V			
						5 Hz to 10 Hz	0.41 % + 0.27 V			
						10 Hz to 20 kHz	0.07 % + 0.56 V			
						20 kHz to 50 kHz	0.14 % + 0.71 V			
						50 kHz to 100 kHz	0.7 % + 0.92 V			
4*	AC current / Multimeters, ammeters and inspection devices, current / current converters, current / voltage converters	20 µA	to	200 µA		10 Hz to 45 Hz	0.28 % + 0.41 µA	Generation by a standard calibrator	AW-02-1004	1
						45 Hz to 1,000 Hz	0.13 % + 0.41 µA			
						1 kHz to 10 kHz	1.8 % + 0.41 µA			
		0.2 mA	to	2 mA		10 Hz to 45 Hz	0.28 % + 0.87 µA			
						45 Hz to 1,000 Hz	0.12 % + 0.73 µA			
						1 kHz to 10 kHz	0.97 % + 1.2 µA			
		2 mA	to	20 mA		10 Hz to 45 Hz	0.28 % + 8.6 µA			
						45 Hz to 1,000 Hz	0.12 % + 7.1 µA			
						1 kHz to 10 kHz	0.65 % + 12 µA			
		20 mA	to	200 mA		10 Hz to 45 Hz	0.28 % + 86 µA			
						45 Hz to 1,000 Hz	0.12 % + 71 µA			
						1 kHz to 10 kHz	0.65 % + 0.12 mA			

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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]	Loca-tion
		min	unit	max	unit					
		0.2 A	to	2 A		10 Hz to 45 Hz	0.28 % + 0.95 mA			
						45 Hz to 1,000 Hz	0.13 % + 0.81 mA			
						1 kHz to 5 kHz	0.81 % + 1.3 mA			
		2 A	to	30 A		30 Hz to 45 Hz	0.25 % + 9.7 mA			
						45 Hz to 100 Hz	0.057 % + 6.6 mA			
						0.1 kHz to 1 kHz	0.41 % + 9.0 mA			
		30 A	to	600 A		50 Hz to 400 Hz	0.12 %	Generation by a standard calibrator with a multi-threaded coil	AW-02-1004	
		600 A	to	1,500 A		50 Hz to 60 Hz	0.35 %			
	AC current / Sources and calibrators	1 µA	to	100 µA		3 Hz to 5 Hz	1.3 % + 0.081 µA	Direct measurement by a standard multimeter	AW-02-1004	
						5 Hz to 10 Hz	0.41 % + 0.081 µA			
						10 Hz to 5 kHz	0.18 % + 0.08 µA			
						5 kHz to 10 kHz	0.41 % + 0.83 µA			
		0.1 mA	to	1 mA		3 Hz to 5 Hz	1.2 % + 0.55 µA			
						5 Hz to 10 Hz	0.35 % + 0.55 µA			
						10 Hz to 5 kHz	0.12 % + 0.56 µA			
						5 kHz to 10 kHz	0.23 % + 3.4 µA			
		1 mA	to	10 mA		3 Hz to 5 Hz	1.3 % + 7.6 µA			
						5 Hz to 10 Hz	0.41 % + 7.6 µA			
						10 Hz to 5 kHz	0.18 % + 7.4 µA			
						5 kHz to 10 kHz	0.41 % + 83 µA			
		10 mA	to	100 mA		3 Hz to 5 Hz	1.2 % + 0.055 mA			
						5 Hz to 10 Hz	0.35 % + 0.055 mA			
						10 Hz to 5 kHz	0.12 % + 0.053 mA			

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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]	Loca-tion
		min	unit	max	unit					
						5 kHz to 10 kHz	0.24 % + 0.32 mA			
		100 mA	to	400 mA		3 Hz to 5 Hz	1.2 % + 0.49 mA			
						5 Hz to 10 Hz	0.35 % + 0.49 mA			
						10 Hz to 5 kHz	0.12 % + 0.53 mA			
						5 kHz to 10 kHz	0.24 % + 4.4 mA			
		400 mA	to	1 A		3 Hz to 5 Hz	1.2 % + 0.55 mA			
						5 Hz to 10 Hz	0.35 % + 0.55 mA			
						10 Hz to 5 kHz	0.12 % + 0.71 mA			
						5 kHz to 10 kHz	0.41 % + 11 mA			
		1 A	to	3 A		3 Hz to 5 Hz	1.3 % + 2.7 mA			
						5 Hz to 10 Hz	0.41 % + 2.7 mA			
						10 Hz to 5 kHz	0.18 % + 3.9 mA			
						5 kHz to 10 kHz	0.41 % + 27 mA			
		3 A	to	10 A		3 Hz to 5 Hz	1.3 % + 8.5 mA			
						5 Hz to 10 Hz	0.41 % + 8.5 mA			
						10 Hz to 5 kHz	0.18 % + 13 mA			
						5 kHz to 10 kHz	0.41 % + 89 mA			
5*	DC resistance / Multimeters, ohmmeters, inspection devices, resistance / voltage converters			100 μΩ			0.015 %	Direct measurement of a standard resistance	AW-02-1013, AW-02-1014	1
				1 mΩ			0.032 %			
				10 mΩ			0.037 %			
				100 mΩ			0.0050 %			
				1 Ω			0.0050 %			
				10 Ω			0.0060 %			
				100 Ω			0.0051 %			
				1 kΩ			0.0051 %			
				10 kΩ			0.0050 %			

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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]	Loca-tion
		min	unit	max	unit					
				100	kΩ		0.0051 %			
				1	MΩ		0.0080 %			
				10	MΩ		0.0081 %			
				100	MΩ		0.013 %			
				1	GΩ		0.040 %			
	DC resistance / Decade resistance boxes, resistors and calibrators							Direct measurement by a standard multimeter	AW-02-1012	
		0	Ω	10	Ω		0.012 % + 3.5 mΩ			
		10	Ω	100	Ω		0.012 % + 4.8 mΩ			
		100	Ω	1	kΩ		0.012 % + 15 mΩ			
		1	kΩ	10	kΩ		0.012 % + 0.15 Ω			
		10	kΩ	100	kΩ		0.012 % + 1.6 Ω			
		100	kΩ	1	MΩ		0.012 % + 24 Ω			
		1	MΩ	10	MΩ		0.047 % + 0.42 kΩ			
		10	MΩ	100	MΩ		0.93 % + 16 kΩ			
		100	MΩ	1	GΩ		2.4 % + 0.2 MΩ			
								Direct measurement by a standard calibrator and multimeter (voltamper method)	AW-02-1012	
		0	mΩ	0,1	mΩ		0,74 μΩ			
		0,1	mΩ	1	mΩ		0,025 % + 0,74 μΩ			
		1	mΩ	10	mΩ		0,052 % + 045 μΩ			
		10	mΩ	100	mΩ		0,020 % + 3,6 μΩ			
		0,1	Ω	1	Ω		0,019 % + 4,3 μΩ			
		1	Ω	10	Ω		0,013 % + 61 μΩ			
		10	Ω	100	Ω		0,012 % + 170 μΩ			

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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]	Loca-tion
		min	unit	max	unit						
6*	Active electrical power / Wattmeters, network analyzers and inspection devices with ranges (1 to 1,000) V and (45 to 100) Hz	0.3 W	to	30 kW		(0.3 to 30) A	cos φ = 1 cos φ = (0.8 to 0.99) cos φ = (0.5 to 0.8)	0.12 % 0.35 % 0.75 %	Generation by a standard calibrator	AW-02-1005	1
		30 kW	to	600 kW		(30 to 600) A	cos φ = 1 cos φ = (0.8 to 0.99) cos φ = (0.5 to 0.8)	0.13 % 0.35 % 0.75 %	Comparison with a standard wattmeter with a current sensor		
	Apparent electrical power / Wattmeters, network analyzers and inspection devices with ranges (1 to 1,000) V	0.3 VA	to	30 kVA		(0.3 to 30) A	(45 to 400) Hz	0.12 %	Generation by a standard calibrator	AW-02-1005	
		30 kVA	to	600 kVA		(30 to 600) A	(45 to 150) Hz	0.12 %	Comparison with a standard wattmeter with a current sensor		

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CMC for the field of measured quantity: Time and frequency quantities

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min	unit		max	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty [2]	Calibration principle	Calibration procedure identification [3]	Location
1*	Time interval / Manually controlled stopwatches, time switches	1 s		to	3,600 s			0.42 s	Comparison with a standard counter	AW-02-1001	1
2*	Time Interval / Time base of dynamometers for vehicle testing				1,000 s			0.0015 s	Comparison with a standard time interval generator	AW-02-1018	2
					2,000 s			0.0034 s			
3*	Frequency / Frequency meters and frequency standards				1 Hz			0.0032 %	Generation by a standard frequency generator	AW-02-1006	1
					10 Hz			0.0032 %			
					100 Hz			0.0032 %			
					1 kHz			0.0032 %			
					10 kHz			0.0032 %			
					100 kHz			0.0032 %			
					1 MHz			0.0032 %			
					10 MHz			0.0032 %			
		3 Hz		to	5 Hz			0.050 %	Direct measurement by a standard counter	AW-02-1008	
		5 Hz		to	10 Hz			0.010 %			
		10 Hz		to	40 Hz			0.010 %			
		40 Hz		to	1 MHz			0.0010 %			

[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).