

**The Appendix is an integral part of
Certificate of Accreditation No. 689/2023 of 20/12/2023**

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

PG electronic s.r.o.
CAB number 2417, Calibration Laboratory
Růžová 5363, 430 04 Chomutov

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	Work-place
		min	unit	max	unit					
1	DC voltage / DC voltage sources, multifunction testers	0 mV	to	100 mV		0.003 % + 3 μV	Direct measurement by a standard multimeter	KA-01		
		100 mV	to	1 V		0.002 % + 6 μV				
		1 V	to	10 V		0.002 % + 40 μV				
		10 V	to	100 V		0.003 % + 0.5 mV				
		100 V	to	1 kV		0.004 % + 8 mV				
		1 kV	to	6 kV		0.2 % + 70 mV				
2	AC voltage / AC voltage sources, multifunction testers	5 mV	to	100 mV	20 Hz to 1 kHz	0.05 % + 40 μV	Direct measurement by a standard multimeter	KA-02		
		100 mV	to	1 V		0.05 % + 0.3 mV				
		1 V	to	10 V		0.05 % + 3 mV				
		10 V	to	100 V		0.05 % + 30 mV				
		100 V	to	1 kV		0.05 % + 0.2 V				
		1 kV	to	5 kV		0.3 % + 4 V				
3	DC current / DC current sources, multifunction testers	1 μA	to	100 μA		0.04 % + 0.03 μA	Direct measurement by a standard multimeter	KA-03		
		100 μA	to	1 mA		0.04 % + 0.04 μA				
		1 mA	to	10 mA		0.04 % + 2 μA				
		10 mA	to	100 mA		0.04 % + 4 μA				
		100 mA	to	400 mA		0.04 % + 20 μA				
		400 mA	to	1 A		0.04 % + 0.2 mA				
		1 A	to	3 A		0.09 % + 0.6 mA				
		3 A	to	10 A		0.2 % + 0.7 mA				

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		min	unit	max	unit					
		10 A	to	30 A		0.35 %	Measurement by a reference multimeter with a shunt			
4	AC current / AC current sources, multifunction testers	10 μA	to	100 μA	20 Hz to 1 kHz	0.2 μA	Direct measurement by a standard multimeter	KA-04		
		100 μA	to	1 mA		0.08 % + 0.4 μA				
		1 mA	to	10 mA		0.2 % + 5 μA				
		10 mA	to	100 mA		0.07 % + 40 μA				
		100 mA	to	400 mA		0.2 % + 0.4 mA				
		400 mA	to	1 A		0.07 % + 0.7 mA				
		1 A	to	3 A		0.09 % + 3 mA				
		3 A	to	10 A		0.2 % + 7 mA				
		10 A	to	30 A	50 Hz to 60 Hz	0.31 % + 18 mA	Measurement by a reference multimeter with current clamps			
		30 A	to	100 A		1.3 % + 24 mA				
5	DC resistance / resistors	1 mΩ	to	50 mΩ		0.2 % + 20 μΩ	Direct measurement by a reference milliohmmer	KA-05		
		50 mΩ	to	500 mΩ		0.06 % + 0.2 mΩ				
		500 mΩ	to	3 Ω		0.06 % + 2 mΩ				
		3 Ω	to	10 Ω		0.008 % + 3 mΩ	Direct measurement by a standard multimeter			
		10 Ω	to	100 Ω		0.008 % + 4 mΩ				
		100 Ω	to	1 kΩ		0.008 % + 8 mΩ				
		1 kΩ	to	10 kΩ		0.008 % + 0.08 Ω				

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		min	unit	max	unit					
		10 kΩ	to	100 kΩ		0.008 % + 0.8 Ω				
		100 kΩ	to	1 MΩ		0.008 % + 8 Ω				
		1 MΩ	to	10 MΩ		0.04 % + 80 Ω				
		10 MΩ	to	100 MΩ		0.6 % + 7 kΩ				
		100 MΩ	to	1 GΩ		2 % + 80 kΩ				
6	Protective conductor resistance / multifunction testers			50 mΩ		1.2 mΩ	Direct measurement of resistance standards	KA-07		
				100 mΩ		1.2 mΩ				
				200 mΩ		1.5 mΩ				
				300 mΩ		2 mΩ				
				400 mΩ		2 mΩ				
7	Insulation resistance / insulation resistance meters, multifunction testers			0.5 MΩ		6 kΩ	Direct measurement of reference resistors	KA-06		
				1 MΩ		12 kΩ				
				2 MΩ		24 kΩ				
				3 MΩ		36 kΩ				
				5 MΩ		59 kΩ				
				9 MΩ		110 kΩ				
				10 MΩ		120 kΩ				
				20 MΩ		240 kΩ				
				30 MΩ		360 kΩ				
				45 MΩ		0.53 MΩ				
				50 MΩ		0.63 MΩ				
				90 MΩ		1.1 MΩ				

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		min	unit	max	unit					
				220 MΩ			3.8 MΩ			
				450 MΩ			8.4 MΩ			
				900 MΩ			11 MΩ			
8	DC resistance / multifunction testers			1 Ω			55 mΩ	Direct measurement of reference resistors	KA-06	
				5 Ω			75 mΩ			
				10 Ω			150 mΩ			
				50 Ω			0.75 Ω			
				100 Ω			1.5 Ω			
				450 Ω			6.8 Ω			
				900 Ω			13.5 Ω			

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).