



EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. 513/2025

PG electronic s.r.o.
with registered office Růžová 5363, 430 04 Chomutov
Company Registration No. 61534404

for the Calibration Laboratory No. 2417
Calibration Laboratory

Scope of accreditation:

Calibration in the field of electrical quantities to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 689/2023 of 20/12/2023, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: 16/10/2030

Prague: 16/10/2025



Signed in the Czech original:
Jan Velíšek on 16/10/2025

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Andrea Muzikářová

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 | Location |
|-----------------------------|---|---------------|------|--------|------|----------------------------------|---|--|---|----------|
| | | 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 | | | |
| | | | | | | | | | | |
| | | 10 A | to | 30 A | | | 0.35 % | Measurement by a reference multimeter with a shunt | KA-04 | |
| 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 | | |

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|-----------------------------|--|---------------|------|--------|------|----------------------------------|---|---|---|----------|
| | | min | unit | max | unit | | | | | |
| | | 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 milliohm meter | 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 | | | |
| | | 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 | | | |

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|-----------------------------|---|---------------|------|--------|------|----------------------------------|---|---|---|----------|
| | | min | unit | max | unit | | | | | |
| | | | | 200 mΩ | | | 1.5 mΩ | | | |
| | | | | 300 mΩ | | | 2 mΩ | | | |
| | | | | 400 mΩ | | | 2 mΩ | | | |
| | | | | 1 Ω | | | 5 mΩ | | | |
| 7 | Insulation resistance / insulation resistance meters, multifunction testers | | | 0,5 MΩ | | | 6 kΩ | Direct measurement of resistance standards | 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 | | | |
| | | | | 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 resistance standards | 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 | | | |

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|-----------------------------|---|---------------|------|--------|------|----------------------------------|---|--|---|----------|
| | | min | unit | max | unit | | | | | |
| 9 | DC resistance / multifunction testers | | | 1 mΩ | | | 5.8 μΩ | Direct measurement of reference resistors | KA-05 | |
| | | | | 10 mΩ | | | 58 μΩ | | | |
| | | | | 20 mΩ | | | 9.3 μΩ | | | |
| | | | | 50 mΩ | | | 22 μΩ | | | |
| | | | | 200 mΩ | | | 84 μΩ | | | |
| | | | | 500 mΩ | | | 0.21 mΩ | | | |
| | | | | 2 Ω | | | 0.77 mΩ | | | |
| | | | | 5 Ω | | | 1.9 mΩ | | | |
| | | | | 20 Ω | | | 7.7 mΩ | | | |
| | | | | 50 Ω | | | 19 mΩ | | | |
| | | | | 200 Ω | | | 78 mΩ | | | |
| | | | | 500 Ω | | | 0.19 Ω | | | |
| | | | | 2 kΩ | | | 0.79 Ω | | | |
| | | | | 5 kΩ | | | 1.9 Ω | | | |
| | | | | 20 kΩ | | | 7.9 Ω | | | |
| | | | | 50 kΩ | | | 19 Ω | | | |
| | | | | 200 kΩ | | | 80 Ω | | | |
| | | | | 500 kΩ | | | 0.19 kΩ | | | |
| | | | | 2 MΩ | | | 0.79 kΩ | | | |
| | | | | 5 MΩ | | | 2.5 kΩ | | | |

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. "