



THE HASHEMITE KINGDOM OF
JORDAN

Accreditation Unit

Annex (1)

Updated on : 14/12/2025

To the Accreditation Certificate No. JAS Cal. - 009 Dated 21-02-2023

For Metrology Professionals LLC (MetrologyPro) / Amman

In the fields of Calibration of:

Pressure, Temperature, Mass and Balance, Torque, Conductivity meter, pH meter,
Sound Level Meters, Volume, Rotational Speed and Time Permanent & On-Site

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|--|-------------------------|---|---|
| Pressure (Calibration Location: Metro Lab/Permanent & On-Site) | | | |
| Pressure /vacuum Meter | -350 mbar ≤ X≤ 350 mbar | 0.5 mbar | Metpro_WI_029 Version No. (8) Date (28/9/2023) |
| | -1 bar < X ≤ 40 bar | 0.03 bar | |
| | 40 bar < X ≤ 400 bar | 0.5 bar | |
| Temperature (Calibration Location: Metro Lab/ Permanent & On-Site) | | | |
| Resistance Thermometers/ RTD with indicator | -40 ≤ X ≤ 160 °C | 0.2 °C | METPRO_WI_032, version No. (6), Date (1/11/2023). |
| | 160 °C < X ≤ 420 °C | 0.3 °C | METPRO_WI_049, version No. (6), Date (1/11/2023). |
| Thermocouple / Resistance Thermometers | -40 °C ≤ X ≤ 160 °C | 0.2 °C | MetPro_WI_040, version No. (5), Date (28/9/2023) |
| | 160 °C < X ≤ 400 °C | 0.4 °C | |
| | 400 °C < X ≤ 660 °C | 0.6 °C | |
| Temperature block calibrator | -95 °C ≤ X ≤ 160 °C | 0.25 °C | Metpro_WI_042 Version No. (6), Date 27/3/2024 |
| Mass (Calibration Location: Metro Lab/ Permanent & On-Site) | | | |
| Non-Automatic weighing instruments Using class E2 standard weights | 0.001g < X ≤ 83g | 0.26mg | Metpro_WI_027, Version No. (10) Date (30/1/2025) |
| | 83g < X ≤ 320g | 3.0 mg | |
| Non-Automatic weighing instruments Using class F1 standard weights | 320g < X ≤ 1000g | 8.0 mg | |
| | 1000g < X ≤ 3000g | 13.0 mg | |
| | 3000g < X ≤ 6000g | 60.0 mg | |
| | 6000g < X ≤ 10000g | 0.12 g | |
| | 10 kg < X ≤ 20 kg | 0.25 g | |
| Non-Automatic weighing instruments Using class M1 standard weights | 20 kg < X ≤ 200 kg | 12g | Metpor_WI_028Version No. (07) Date (2/10/2024) |
| Conventional Class M1, M2, & M3 | 1mg | 0.05 mg | |
| | 2 mg | 0.06 mg | |
| | 5 mg | 0.06 mg | |
| | 10 mg | 0.08 mg | |
| | 20 mg | 0.1 mg | |
| | 50 mg | 0.12 mg | |
| | 100 mg | 0.16 mg | |
| | 200 mg | 0.2 mg | |
| | 500 mg | 0.25 mg | |
| | 1 g | 0.3 mg | |
| | 2 g | 0.4 mg | |
| | 5 g | 0.5 mg | |
| | 10 g | 0.6 mg | |
| | 20 g | 0.8 mg | |
| | 50 g | 1.0 mg | |
| | 100 g | 1.6 mg | |
| | 200 g | 3.0 mg | |
| | 500 g | 8.0 mg | |
| | 1 kg | 16 mg | |
| | 2 kg | 30 mg | |
| | 5 kg | 80 mg | |
| | 10 kg | 0.16 g | |
| | 20 kg | 0.3 g | |



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In the fields of Calibration of:

Pressure, Temperature, Mass and Balance, Torque, Conductivity meter, pH meter,
Sound Level Meters, Volume, Rotational Speed and Time Permanent & On-Site

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|---|------------------------|---|---|
| Torque (Calibration Location: Metro lab/ Permanent) | | | |
| Torque measurement | 11 N.m < X ≤ 113 N.m | 2.2 % * Reading | METPRO_WI_047, Version No. (6), Date (7/7/2022) |
| | 113 N.m < X ≤ 1016 N.m | 1.8 % * Reading | |
| Chemical (Calibration Location: Metro lab/ Permanent) | | | |
| Conductivity meter | 147 µS/cm | 5.0 µS/cm | METPRO_WI_066, version No. (3), Date (7/7/2022). |
| PH Meter/ Probe | 4 pH | 0.05 PH | METPRO_WI_066, version No. (3), Date.(٢٠٢٢/٧/٧) |
| | 7 pH | | |
| | 10 pH | | |
| Sound Level Meters (Calibration Location: Metro lab /Permanent) | | | |
| Sound level meter | 94 dB | 0.70 dB | ,METPRO_WI_013 version No. (3), Date.(٢٠٢٢/٧/٧) |
| | 114 dB | | |
| Volume (Calibration Location: Metro lab / Permanent) | | | |
| Piston-operated volumetric apparatus (except multi-channel pipette) | 100 µL ≤ X ≤ 1000 µL | 0.6 µL | METPRO_WI_050, Version No. (05), Date 15/5/2022 |
| | 1 mL< X ≤ 100ml | 1.2 µL | |
| Volumetric flask | Up to 20 L | 0.11 L | |
| Rotational Speed (Calibration Location: Metro lab/ Permanent & On-Site) | | | |
| Rotational speed (RPM) | 60 RPM – 900 RPM | 0.23 RPM | METPRO_WI_011, version No.(5), Date (7/7/2022) |
| | 901 RPM – 9000 RPM | 1.5 RPM | |
| Time (Calibration Location: Metro lab/ Permanent & On-Site) | | | |
| Timer | Up to 60 sec | 0.73 sec | Metpro_WI_05, Version 6, Date: 16/6/2023 |
| | 1 min to 60 min | 0.018 min | |
| | 1 hr to 24 hr | 0.05 hr | |
| Stopwatch | Up to 1 hr | 0.75 s | |
| | 1 hr to 24 hr | 3 s | |

a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of k = 2.

The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

List of employees in the laboratory who are technically responsible for issuing the calibration certificates in the scope of accreditation:

1. Mohammed Hourani: Technical Manager- Technical Engineer.
2. Muath Madi: Quality Manager- Deputy of Technical Manager
3. Fouad Alremawi: Senior Technical Engineer.
4. Nour Saleh: Technical Engineer/ Senior Sales Engineer



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Annex (2)

Updated on: 14/12/2025

Issued on: 29/10/2024

To the Accreditation Certificate No. JAS Cal. - 009 Dated 21/02/2023

For Metrology Professionals LLC (Metrology pro)/Amman

Scope of Accreditation

Calibration of Mass, Humidity, Dimension and Electrical Quantity (Measuring, Sourcing)
(Permanent and On-site)

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|---|---|--|--|
| Humidity (Calibration Location: Metro Lab/ Permanent and on –Site) | | | |
| Calibration of Data logger and Hygrometer | 5% RH to 95% RH 2 °C to 58 °C | 0.88 %RH (Reading) 0.2 °C | METPRO_WI_049 Version No. (6) Date 1/11/2023 |
| Mass (Calibration Location: Metro Lab/ Permanent) | | | |
| Calibration of Conventional Mass Class F1 and F2 | 1 mg to 50 mg >50 mg to 2 g >2 g to 5 g >5 g to 50 g >50 g to 200 g >200 g to 500 g >500 g to 2 kg 5 kg 10 kg | 0.015 mg 0.021 mg 0.038 mg 0.08 mg 0.22 mg 0.86 mg 0.96 mg 6.3 mg 8.4 mg | METPRO_WI_028 Version No. (7) Date 2/10/2024 |
| Dimension (Calibration Location: Metro Lab/ Permanent) | | | |
| Calibration of Caliper | Up to 300 mm | 0.01 mm | METPRO_WI_043 Version No. (7) Date 24/06/2024 |
| Calibration of Micrometer | Up to 25 mm | 0.002 mm | METPRO_WI_048 Version No. (10) Date 04/08/2024 |
| Calibration of Dial Gauge | Up to 25 mm | 0.011 mm | METPRO_WI_046 Version No. (6) Date 13/05/2024 |
| Calibration of Ruler | Up to 1000 mm | 0.76 mm | METPRO_WI_045 Version No. (5) Date 7/7/2022 |



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(Permanent and On-site)

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|--|------------------|---|--|
| Calibration of Angel | 15° to 90° | 0.4° | METPRO_WI_071 Version No. (3) Date 08/04/2025 |
| Electrical Quantity (Calibration of measuring devices using comparison method (Calibration Location: Metro Lab/ Permanent)) | | | |
| AC Voltage (@ 50 Hz) | Up to 100 mV | 0.15 mV | Metpro_WI_030 Version No.7 based on EURAMET cg- 15 Guidelines on the Calibration of Digital Multimeters (V.03) and NABAL 129 4. Electro- Technical Calibration. |
| | >100 mV to 1 V | 0.0034 V | |
| | >1 V to 10 V | 0.012 V | |
| | >10 V to 100 V | 0.14 V | |
| | >100 V to 750 V | 0.99 V | |
| AC Voltage (@ 1 kHz) | Up to 100 mV | 0.19 mV | |
| | >100 mV to 1 V | 0.0037 V | |
| | >1 V to 10 V | 0.015 V | |
| | >10 V to 100 V | 0.19 V | |
| | >100 V to 750 V | 2 V | |
| DC Voltage | Up to 100 mV | 0.015 mV | |
| | >100 mV to 1 V | 0.0032 V | |
| | >1 V to 10 V | 0.0047 V | |
| | >10 V to 100 V | 0.0097 V | |
| | >100 V to 1000 V | 0.1 V | |
| AC Current (@ 50 Hz) | Up to 400 mA | 1.1 mA | |
| | >400 mA to 3 A | 0.013 A | |
| | >3 A to 10 A | 0.033 A | |



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(Permanent and On-site)

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|--|-------------------|---|---|
| | >10 A to 100 A | 0.15 A | |
| | >100 A to 300 A | 0.16 A | |
| | >300 A to 1000 A | 0.17 A | |
| AC Current (@ 1 kHz) | Up to 400 mA | 0.97 mA | |
| | >400 mA to 3 A | 0.024 A | |
| | >3 A to 10 A | 0.052 A | |
| AC Current (@ 400 Hz) | >10 A to 100 A | 0.15 A | |
| | >100 A to 300 A | 0.15 A | |
| DC Current | Up to 100 μA | 0.13 μA | |
| | >100 μA to 400 mA | 0.25 mA | |
| | >400 mA to 3A | 0.0054 A | |
| | >3A to 10 A | 0.019 A | |
| | >10 A to 200 A | 0.058 A | |
| | >200 A to 400 A | 0.059 A | |
| Electrical Quantity (Calibration of Measuring Device using Direct Method) (Calibration Location: Metro Lab/ Permanent) | | | |
| Resistance (4-wire) | Up to 10 Ω | 0.58 Ω | Metpro_WI_030 Version No.7 based on EURAMET cg- 15 Guidelines on the Calibration of Digital Multimeters (V.03) and NABAL 129 4. Electro-Technical Calibration |
| | >10 Ω to 100 Ω | 0.59 Ω | |
| | >100 Ω to 1 kΩ | 0.0036 kΩ | |
| | >1 kΩ to 10 kΩ | 0.012 kΩ | |
| | >10 kΩ to 100 kΩ | 0.018 kΩ | |
| Resistance (2-wire) | >100 kΩ to 1 MΩ | 0.0034 MΩ | |



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Scope of Accreditation

Calibration of Mass, Humidity, Dimension and Electrical Quantity (Measuring, Sourcing)
(Permanent and On-site)

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|--|-------------------|---|---|
| | >1 MΩ to 10 MΩ | 0.046 MΩ | |
| | >10 MΩ to 100 MΩ | 3.4 MΩ | |
| | >100 MΩ to 900 MΩ | 6.2 MΩ | |
| Frequency | 100 Hz | 0.0044 Hz | |
| | 10 kHz | 0.042 kHz | |
| | 100 kHz | 0.0054 kHz | |
| | 300 kHz | 0.0085 kHz | |
| | 700 kHz | 0.017 kHz | |
| | 1 MHz | 0.0059 kHz | |
| Electrical Quantity (Calibration of Sourcing Device using Direct Method) (Calibration (Location: on –Site)) | | | |
| Active power (@ 50 HZ) | Up to 750 kW | 0.08kW | Metpro_WI_030 Version No.7 based on EURAMET cg- 15 Guidelines on the Calibration of Digital Multimeters (V.03) and NABAL 129 4. Electro-Technical Calibration |
| Reactive power (@ 50 HZ) | Up to 750 kVAr | 0.019 kVAr | |
| Apparent power (@ 50 HZ) | Up to 750 kVA | 0.11 kVA | |
| Power Factor | Up to 1 | 0.024 PF | |
| Electrical power Consumption | Up to 9999 kWh | 2.1 kWh | |
| Electrical Quantity (Calibration of Sourcing Device using Direct Method) (Calibration (Location: Metro Lab/ Permanent and on –Site)) | | | |
| Frequency | Up to 60 MHZ | 0.0078 MHz | Metpro_WI_030 Version No.7 based on EURAMET cg- 15 Guidelines on the Calibration of Digital Multimeters (V.03) and NABAL 129 4. Electro-Technical Calibration |
| Resistance (4-wire) | 1 Ω | 0.58 Ω | |
| | 10 Ω | 0.58 Ω | |
| | 100 Ω | 0.58 Ω | |



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Scope of Accreditation

Calibration of Mass, Humidity, Dimension and Electrical Quantity (Measuring, Sourcing)
(Permanent and On-site)

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|-----------------------------|-----------------|---|---|
| | 1 k Ω | 0.58 k Ω | Metpro_WI_030 Version No.7 based on EURAMET cg- 15 Guidelines on the Calibration of Digital Multimeters (V.03) and NABAL 129 4. Electro-Technical Calibration |
| | 10 k Ω | 0.58 k Ω | |
| | 100 k Ω | 0.58 k Ω | |
| Resistance (2-wire) | 1 M Ω | 0.58 M Ω | |
| | 10 M Ω | 0.59 M Ω | |
| | 100 M Ω | 1.3 M Ω | |
| DC Voltage | 100 mV | 0.038 mV | |
| | 1 V | 0.0033 V | |
| | 10 V | 0.0044 V | |
| | 100 V | 0.036 V | |
| | 1000 V | 0.37 V | |
| AC Voltage (10 Hz - 20 kHz) | 100 mV | 0.16 mV | |
| | 1 V | 0.0035 V | |
| | 10 V | 0.011 V | |
| | 100 V | 0.13 V | |
| | 1000 V | 1.2 V | |
| DC Current | 100 μ A | 0.13 μ A | |
| | 1 mA | 0.0087 mA | |
| | 10 mA | 0.012 mA | |
| | 100 mA | 0.14 mA | |
| | 1 A | 0.0034 A | |



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(Permanent and On-site)

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|---------------------------|-----------------|---|---|
| AC Current (10 Hz - 5kHz) | 3 A | 0.0053 A | Metpro_WI_030 Version No.7 based on EURAMET cg- 15 Guidelines on the Calibration of Digital Multimeters (V.03) and NABAL 129 4. Electro-Technical Calibration |
| | 10 A | 0.019A | |
| | 100 μ A | 0.18 μ A | |
| | 1 mA | 0.093 mA | |
| | 10 mA | 0.026 mA | |
| | 100 mA | 0.19 mA | |
| | 1 A | 0.0042 A | |
| | 3 A | 0.011 A | |
| | 10 A | 0.025 A | |
| | | | |

a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

List of employees in the laboratory who are technically responsible for issuing the calibration certificates in the scope of accreditation:

1. Mohammed Hourani: Technical Manager- Technical Engineer.
2. Muath Madi: Quality Manager- Deputy of Technical Manager.
3. Fouad Alremawi: Senior Technical Engineer.
4. Nour Saleh: Technical Engineer/ Senior Sales Engineer.
5. Ayman Harasis- Technical Engineer.
6. Saad Alrahamneh- Technical Engineer.
7. Lina Shaban- Technical Engineer.
8. Malak Abo Irshaid- Quality Engineer.
9. Abdullah Abu Samhadaneh- Technical Engineer.



Annex (3)

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For Metrology Professionals LLC (MetrologyPro) / Amman

In the fields of Calibration of:

Torque, Volume Temperature and Pressure

Permanent & On-Site

| Measurand | Measuring Range | Calibration and measurement Capability (CMC) ^a | Calibration Methods/ Standards/ Remarks |
|---|---------------------|---|--|
| Torque (Permanent) | | | |
| Torque Wrench | 2.5 N.m to 11 N.m | 2 % of reading | METPRO_WI_047, Version No. (7), Date 02/01/2023 |
| Volume (Permanent) | | | |
| Piston-operated volumetric apparatus (except multi-channel pipette) | 10 µL to 100 µL | 0.65 µL | METPRO_WI_050, Version No. (5) Date (15/5/2025) |
| Temperature (Permanent & On-Site) | | | |
| Thermometer/ Thermocouple | -85 C to -40 C | 0.15 °C | METPRO_WI_040, Version No.5, Date (28/9/2023) |
| Pressure (Permanent & On-Site) | | | |
| Pressure/ Vacuum meter | 400 bar to 1000 bar | 0.6 bar | METPRO_WI_029, Version No. (8), Date (28/9/2023) |

a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

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