

## 10.6 Schedule of Accreditation

Issue No: 1/ Issue Date: 29/05/2016  
 Accreditation Manager: B.H



### Euro Mechanical Instrumentation Services No. ACL 0001

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognized International Standard ISO/IEC 17025:2005, "General requirements for the competence of testing and calibration laboratories"

|  |  |
|--|--|
| <b>Euro Mechanical Instrumentation Services Calibration Laboratory</b> |  |
| <b>Issue No: 1</b>   | <b>Issue Date: 29/05/2016</b>  |
| Address: EMIS, ICAD1, MUSSAFAH, ABU DHABI                              | Contact: Sasi Kozhisseri<br>Tel: 00971 2 5507076<br>Fax: 00971 2 5507077<br>Email: <a href="mailto:emis@euromechanical.com">emis@euromechanical.com</a><br>Web Address: <a href="http://www.euromechanical.com">www.euromechanical.com</a> |

**Locations where calibration activities covered by the above Accreditation Standard are undertaken**

|   |
|---|
| 1- address : EMIS, ICAD1, MUSSAFAH, ABU DHABI |
|---|

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**For the following scope:**

**Scope:**

**1.38 Instrument calibrators**

- 1.38.01 D.C. voltage
- 1.38.02 A.C. voltage
- 1.38.11 D.C. current
- 1.38.12 A.C. current
- 1.38.51 Resistance (DC)

**1.39 Indicating and recording instruments**

- 1.39.01 D.C. voltmeters
- 1.39.02 A.C. voltmeters
- 1.39.03 D.C. ammeters
- 1.39.04 A.C. ammeters
- 1.39.09 Ohmmeters

1.39.81 Graphic Recording Instruments

1.39.82 Digital Storage Recorders

**1.20 Pressure and vacuum measuring devices**

1.20.01 Pressure gauges

1.20.02 Vacuum Gauges

1.20.11 Pressure Transducers

1.20.13 Pressure recorders

1.20.23 Digital Manometers

1.20.31 Pressure control devices

**1.80 Calibration of temperature measuring equipment**

1.80.41 Digital Temperature Indicator System

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Scope details are as follows:

| Measured quantity (measurand) | Range for instrument   | CMC (k=2) | Brief description of measurement, method and equipment used            |
|-------------------------------|------------------------|-----------|--|
| DC Voltage – Generation       | 0.0001mV - 329.9999 mV | 57.89ppm  | Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15) |
|                               | 330mV - 3.299999 V     | 26.35ppm  |  |
|                               | 3.3V – 32.99999 V      | 26.19ppm  |  |
|                               | 30V – 329.9999 V       | 31.67ppm  |  |
|                               | 100V – 1000.000 V      | 24.59ppm  |  |
| AC Voltage@50Hz - Generation  | 1mV – 32.999 mV        | 1000ppm   | Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15) |
|                               | 33 mV – 329.999 mV     | 272ppm    |  |
|                               | 0.33V – 3.29999 V      | 407.62ppm |  |
|                               | 3.3 V – 32.9999 V      | 424.65ppm |  |
|                               | 33 V – 329.999 V       | 250.68ppm |  |
| DC Current – Generation       | 330 V – 1020 V         | 391.28ppm | Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15) |
|                               | 20µA – 329.999 µA      | 255.26ppm |  |
|                               | 330 µA – 3.29999 µA    | 266.5ppm  |  |
|                               | 3.3 mA – 32.9999 mA    | 189.38ppm |  |
|                               | 33mA – 329.999 mA      | 181.33ppm |  |
|                               | 330 mA – 1.09999 A     | 125.03ppm |  |
|                               | 1.1 A – 2.99999 A      | 488.72ppm |  |
| 3 – 20.5 A                    | 669.10ppm              |           |  |

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| Measured quantity (measurand)  | Range for instrument                 | CMC (k=2) | Brief description of measurement, method and equipment used            |
|--------------------------------|--------------------------------------|-----------|--|
| AC Current @ 50Hz – Generation | 29.00 $\mu$ A – 329.99 $\mu$ A       | 268ppm    | Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15) |
|                                | 0.33 mA – 3.2999 mA                  | 1440ppm   |  |
|                                | 3.3 mA – 32.999 mA                   | 761ppm    |  |
|                                | 33 mA – 329.99 mA                    | 768ppm    |  |
|                                | 0.33 A – 1.09999 A                   | 755.6ppm  |  |
|                                | 1.1 A – 2.99999 A                    | 2180ppm   |  |
|                                | 3 A – 20.5 A                         | 1060ppm   |  |
| DC Resistance - Generation     | 0.0001 $\Omega$ – 10.9999 $\Omega$   | 115.92ppm | Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15) |
|                                | 11 $\Omega$ – 32.9999 $\Omega$       | 62.83ppm  |  |
|                                | 33 $\Omega$ – 109.9999 $\Omega$      | 37.26ppm  |  |
|                                | 110 $\Omega$ – 329.9999 $\Omega$     | 35.52ppm  |  |
|                                | 330 $\Omega$ – 1.099999 $\Omega$     | 34.50ppm  |  |
|                                | 1.1 k $\Omega$ – 3.299999 k $\Omega$ | 33.44ppm  |  |
|                                | 3.3 k $\Omega$ – 10.99999 k $\Omega$ | 33.82ppm  |  |
|                                | 11 k $\Omega$ – 32.99999 k $\Omega$  | 34.58ppm  |  |
|                                | 33 k $\Omega$ – 109.9999 k $\Omega$  | 34.46ppm  |  |
|                                | 110 k $\Omega$ – 329.9999 k $\Omega$ | 39.92ppm  |  |
|                                | 330 k $\Omega$ – 1.099999 M $\Omega$ | 41.91ppm  |  |
|                                | 1.1 M $\Omega$ – 3.299999 M $\Omega$ | 175.63ppm |  |
|                                | 3.3 M $\Omega$ – 10.99999 M $\Omega$ | 156.92ppm |  |

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| Measured quantity (measurand)    | Range for instrument | CMC (k=2) | Brief description of measurement, method and equipment used   |
|----------------------------------|----------------------|-----------|---|
|                                  | 11 MΩ – 32.99999 MΩ  | 279.52ppm |   |
|                                  | 33 MΩ – 109.9999 MΩ  | 617.95ppm |   |
| DC Voltage - Measurement         | 0.0001 mV – 100mV    | 21.60ppm  | 8.5 Digits Precision Multimeter<br>Agilent 3458A<br>SI No: MY45043938<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15) |
|                                  | 100 mV – 1V          | 12.84ppm  |   |
|                                  | 1 V – 10 V           | 11.65ppm  |   |
|                                  | 10 V – 100 V         | 17ppm     |   |
|                                  | 100 V – 1000 V       | 25.81ppm  |   |
| AC Voltage @ 50 Hz – Measurement | 0.001 mV – 10 mV     | 639.3ppm  | 8.5 Digits Precision Multimeter<br>Agilent 3458A<br>SI No:MY45043938<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15)  |
|                                  | 10 mV – 100mV        | 128.1ppm  |   |
|                                  | 0.00001V – 1V        | 130.6ppm  |   |
|                                  | 1 V – 10 V           | 136.2ppm  |   |
|                                  | 10 V – 100V          | 497.5ppm  |   |
|                                  | 100V – 700V          | 534.9ppm  |   |
| DC Current - Measurement         | 0.001 μA - 1 μA      | 635.5ppm  | 8.5 Digits Precision Multimeter<br>Agilent 3458A<br>SI No:MY45043938<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15)  |
|                                  | 1 μA – 10 μA         | 125.6ppm  |   |
|                                  | 10 μA – 100 μA       | 48.36ppm  |   |
|                                  | 100 μA – 1 mA        | 42.83ppm  |   |
|                                  | 1mA – 10 mA          | 41.87ppm  |   |
|                                  | 10mA - 100 mA        | 55.90ppm  |   |
|                                  | 100 mA – 1A          | 159.09ppm |   |

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| Measured quantity (measurand)   | Range for instrument           | CMC (k=2)  | Brief description of measurement, method and equipment used  |
|---------------------------------|--------------------------------|------------|--|
| AC Current @ 50Hz – Measurement | 0.01 $\mu$ A - 100 $\mu$ A     | 1151.54ppm | 8.5 Digits Precision Multimeter<br>Agilent 3458A<br>SI No:MY45043938<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15)                           |
|                                 | 100 $\mu$ A – 1mA              | 1037.9ppm  |  |
|                                 | 1mA – 10mA                     | 989.14ppm  |  |
|                                 | 10mA – 100mA                   | 987.41ppm  |  |
|                                 | 100mA – 1A                     | 1429.8ppm  |  |
| DC Resistance - Measurement     | 0.001 $\Omega$ – 10 $\Omega$   | 33.88ppm   | 8.5 Digits Precision Multimeter<br>Agilent 3458A<br>SI No:MY45043938<br>SOP NO: EMIS-SOP-01<br>(Euramet cg-15)                           |
|                                 | 10 $\Omega$ – 100 $\Omega$     | 82.13ppm   |  |
|                                 | 100 $\Omega$ – 1 k $\Omega$    | 12.82ppm   |  |
|                                 | 1 k $\Omega$ - 10 k $\Omega$   | 14.61ppm   |  |
|                                 | 10 k $\Omega$ - 100 k $\Omega$ | 12.82ppm   |  |
|                                 | 100 k $\Omega$ - 1 M $\Omega$  | 25.16ppm   |  |
|                                 | 1 M $\Omega$ - 10 M $\Omega$   | 80.87ppm   |  |
|                                 | 10 M $\Omega$ - 100 M $\Omega$ | 600.43ppm  |  |
| Gauge Pressure (Hydraulic)      | 5- 70 bar                      | 0.0142 bar | Hydraulic dead weight tester<br>Budenberg<br>PCU SI No:938G<br>Weight set SI No: A7113 @ A8573<br>SOP NO: EMIS-SOP-02<br>(Euramet Cg-17) |
|                                 | 70- 700 bar                    | 0.065 bar  |  |

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|-------------------------------|----------------------|-------------|--|
| Gauge pressure (Pneumatic)    | 100 mbar- 3.5 bar    | 0.0002 bar  | Druck Pace 6000 pressure controller with module SI No:3434248<br>Range:-1 to 3.5 bar pressure module<br>SOP NO: EMIS-SOP-03<br>(Euramet Cg-17) |
|                               | 2 bar to 35 bar      | 0.00254 bar | Druck Pace 6000 pressure controller with module SI No:3466783<br>Range:-1 to 35 bar pressure module<br>SOP NO: EMIS-SOP-03<br>(Euramet Cg-17)  |
| Negative pressure             | 0 to -0.2 bar        | 0.00014 bar | Druck Pace 6000 pressure controller with module SI No:3434248<br>Range:-1 to 3.5 bar pressure module<br>SOP NO: EMIS-SOP-03<br>(Euramet Cg-17) |

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|  |   |                            |   |
|--|---|----------------------------|---|
| Thermometers, RTD, thermocouple, thermistor and digital thermometers             | -15 °C to 650 °C                                    | 0.3 °C                     | Comparison Method<br>Digital thermometer 1529 with SPRT Probe<br>Fluke 1529 SI No:B4B210<br>Probe SI No: 5699<br>Range:-200°C to 660 °C<br>SOP NO: EMIS–SOP-04<br>(Euramet, Cg-13,Euramet Cg-8) |
| Temperature chart records (With External Sensors)                                | 0° C to 100 °C                                      | 0.5°C                      |   |
| Temperature Indicators TC type (K) / Simulation                                  | -100°C to 1300°C                                    | 0.45°C                     | Simulation using Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS–SOP-04<br>(Euramet Cg-11)   |
| Temperature Indicators PT-100 Four-Wire Indicator with $\alpha=385$ / Simulation | -200°C to 100°C<br>100°C to 500°C<br>500°C to 800°C | 0.08°C<br>0.15°C<br>0.25°C | Simulation by using Fluke 5520A<br>SI No:9310011<br>SOP NO: EMIS–SOP-04<br>(Euramet Cg-11)  |

Accreditation Withdrawn



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**END**

**Euro Mechanical Instrumentation Services LLC** recorded as issuing GAC accredited calibration certificates to organizations in the countries listed below. This list is current at the time of issue of this schedule.

| United Arab Emirates | Bahrain | Saudi Arabia | Oman | Qatar | Kuwait | Yemen |
|----------------------|---------|--------------|------|-------|--------|-------|
|                      |         |              |      |       |        |       |

Accreditation Withdrawn