



INTERNATIONAL  
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# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **PROMPT ENGINEERING & TRADING SERVICES CO.WLL**

SHOP NO 19 & 20, BUILDING NO 6, BARWA VILLAGE, ZONE: 91, STREET NO: 294  
DOHA 24067, QATAR

### **Calibration Laboratory CL-165**

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiration Date January 1, 2026

Effective Date March 18, 2025



*International Accreditation Service*

Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## PROMPT ENGINEERING & TRADING SERVICES CO.WLL

[www.promptqatar.com](http://www.promptqatar.com)

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**Contact Phone** +974-70441661

*Accredited to ISO/IEC 17025:2017*

*Effective Date March 18, 2025*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

| MEASURED<br>QUANTITY or DEVICE<br>TYPE CALIBRATED                                                            | RANGE                       | UNCERTAINTY <sup>1,2</sup><br>(±) | CALIBRATION METHOD OR<br>PROCEDURE, STANDARD<br>EQUIPMENT (OPTIONAL)               |
|--------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|------------------------------------------------------------------------------------|
| <b>Dimensional</b>                                                                                           |                             |                                   |                                                                                    |
| External Micrometer <sup>5</sup>                                                                             | Up to 150 mm                | 1.9 µm                            | Using slip gauge set Grade "0", optical parallel and optical flat by direct method |
| Calipers <sup>5</sup>                                                                                        | Up to 300 mm                | 9 µm                              | Using slip gauge set Grade "0" by direct method                                    |
| Height Gauge <sup>5</sup>                                                                                    | Up to 600 mm                | 11 µm                             | Using surface plate, slip gauge set Grade "0" and length bars by direct method     |
| Thickness Gauge <sup>5</sup>                                                                                 | Up to 5 mm<br>5 mm to 50 mm | 1 µm<br>6 µm                      | Using Slip gauge set Grade "0" by direct method                                    |
| Feeler Gauge <sup>5</sup>                                                                                    | 0.01 mm to 1 mm             | 2 µm                              | Using Digital Micrometer by direct method                                          |
| Standard Foils <sup>5</sup>                                                                                  | Up to 5000 µm               | 2.6 µm                            | Using Digital Micrometer by direct method                                          |
| Ring Gauges / Setting rings <sup>6</sup>                                                                     | 7 mm to 125 mm              | 2.6 µm                            | Using Micro-height by direct method                                                |
| <b>Mechanical</b>                                                                                            |                             |                                   |                                                                                    |
| Pressure (Pneumatic)<br>Pressure and Vacuum<br>Gauge / Recorder/<br>Transducer/ Safety<br>Valve <sup>5</sup> | -0.85 bar to 2 bar          | 0.91 %                            | Using Automatic Pressure calibrator by direct method                               |
|                                                                                                              | 0.2 bar to 20 bar           | 0.08 %                            | Using Pressure Calibrator by direct method                                         |
|                                                                                                              | 1 bar to 150 bar            | 0.28 %                            | Using pneumatic calibrator with Reference Pressure gauge by comparison method      |
| Pressure (Hydraulic)<br>Pressure Gauge /<br>Recorder / Transducer <sup>6</sup>                               | 20 bar to 700 bar           | 0.03 %                            | Hydraulic Dead weight Tester by direct method                                      |
|                                                                                                              | 700 bar to 1400 bar         | 0.44 %                            |                                                                                    |

\* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Vibration Meter/Analyzer <sup>5</sup>                                       | Single point - 10 m/s <sup>2</sup>                                              | 0.38 m/s <sup>2</sup>                                                | Using Calibration Exciter by direct method                                                                           |
| Sound Level Meter <sup>5</sup>                                              | 94 dB and 104 dB @ 1 kHz                                                        | 0.6 dB                                                               | Using Acoustic calibrator by direct method                                                                           |
| Sound Level Calibrator <sup>5</sup>                                         | 94 dB and 114 dB @ 1 kHz                                                        | 1.4 dB                                                               | Using Reference Sound level meter by direct method                                                                   |
| Anemometer (Hot Wire, Vane Type and Pitot Tube Anemometer) <sup>5</sup>     | 2.5 m/s to 15 m/s                                                               | 0.55 m/s                                                             | Using Laboratory grade, Bench top mini wind tunnel, reference anemometer & reference pitot tube by comparison method |
| Torque Screwdriver (CCW) <sup>5</sup>                                       | 0.1 N·m to 3 N·m                                                                | 0.86 %                                                               | Using Norbar Torque Tester by Direct Method<br>ISO 6789 :2017 Part 1 and Part 2                                      |
| Torque Wrenches (CW & CCW) <sup>5</sup>                                     | 1 N·m to 5 N·m<br>5 N·m to 10 N·m<br>10 N·m to 1000 N·m<br>1000 N·m to 3000 N·m | 1.5 %<br>0.53 %<br>0.71 %<br>0.4 %                                   | Using Torque Transducers, Calibration Station and Torque Tester by direct method<br>ISO 6789:2017 Part 1 and Part 2  |
| Force – Compression Testing Machine <sup>5</sup>                            | 2 kN to 100 kN<br>100 kN to 3000 kN                                             | 0.08 %<br>0.07 %                                                     | Using Load Cell by direct method                                                                                     |
| Analytical / Laboratory / Industrial Balance <sup>5</sup>                   | 0 g to 320 g<br>320 g to 1600 g<br>1600 g to 3200 g                             | 0.27 mg<br>0.0014 g<br>0.0077 g                                      | Using E1 Class Weights by direct method<br>EURAMET CG-18:2015<br>OIML R76-1 :2006                                    |
|                                                                             | 1 mg to 2100 g<br>2100 g to 5000 g<br>5 kg to 200 kg                            | 0.006 g<br>0.023 g<br>28 g                                           | Using E2, F1 and M1 Class Weights by direct method                                                                   |
| Weights <sup>5</sup>                                                        | 100 g<br>200 g<br>500 g<br>1 kg<br>2 kg<br>5 kg<br>10 kg<br>20 kg               | 8 mg<br>8.3 mg<br>8.3 mg<br>8 mg<br>9 mg<br>17 mg<br>15 mg<br>240 mg | Using mass comparator and E2, F2, M1 reference weights by comparison method                                          |
| <b>Thermal</b>                                                              |                                                                                 |                                                                      |                                                                                                                      |
| Temperature Controller / Indicator / Recorder / with Sensor / Thermometer / | -40 °C to 250 °C<br>250 °C to 660 °C<br>600° C to 1200° C                       | 0.094 °C<br>0.61 °C<br>1.4 °C                                        | Using Dry Block Metrology Well, Furnace, Micro Bath / with PRT Secondary Standard, Type-S                            |

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|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Thermocouple / RTD Sensor / Temperature Gauge / Transmitter <sup>5</sup> |                                                                                                                                                                                                                                                            |                                                                                                | Thermocouple by comparison method<br>EURAMET CG-08:2020,<br>ASTM E644-11:2019      |
| Infrared Thermometer <sup>5</sup>                                        | -15 °C to 120 °C<br>50 °C to 500 °C                                                                                                                                                                                                                        | 0.7 °C<br>1.0 °C                                                                               | Using IR calibrator by direct method                                               |
| Oven / Incubator / Freezer (Mapping – Multi Sensor method) <sup>5</sup>  | -80 °C to 419 °C                                                                                                                                                                                                                                           | 0.63 °C                                                                                        | Using Reference PRT's with Indicator by direct method                              |
| Muffle Furnace                                                           | 500 °C to 1100 °C                                                                                                                                                                                                                                          | 2.8 °C                                                                                         | Using Reference Type-S Thermocouple by direct method<br>EURAMET CG-20:2017         |
| Humidity meters / loggers / recorders <sup>5</sup>                       | 10 %RH to 95 %RH (@18 °C to 25 °C)<br>18 °C to 28 °C @ 45 %RH                                                                                                                                                                                              | 0.70 %<br>0.22 °C                                                                              | Using Humidity Generator by Direct method                                          |
| <b>Electrical – DC/LF</b>                                                |                                                                                                                                                                                                                                                            |                                                                                                |                                                                                    |
| DC Current Generate <sup>3,5</sup>                                       | 0 µA to 329.999 µA/<br>0.33 mA to 3.29999 mA<br>3.3 mA to 32.9999 mA<br>33.0 mA to 329.999 mA<br>0.330 A to 1.09999 A<br>1.1 A to 2.99999 A<br>3.0 A to 10.9999 A<br>11 A to 20 A<br>20 A to 1000 A                                                        | 16 nA + 0.04 %<br>0.02 %<br>0.06 %<br>0.02 %<br>0.06 %<br>0.11 %<br>0.08 %<br>0.08 %<br>0.50 % | Using Electrical Multifunction Calibrator & 50 Turn Current Coil by direct method. |
| AC Voltage Generate <sup>3,5</sup>                                       | (10 Hz to 500 Hz)<br>1.0 mV to 32.99 mV<br><br>(10 Hz to 500 kHz)<br>33 mV to 329.999 mV<br>0.33 V to 3.29999 V<br><br>(10 Hz to 100 kHz)<br>3.3 V to 32.9999 V<br><br>(45 Hz to 100 kHz)<br>33 V to 329.999 V<br><br>(45 Hz to 10 kHz)<br>330 V to 1020 V | 0.14 %<br><br>0.10 %<br>0.08 %<br><br>0.08 %<br><br>0.08 %<br><br>0.063 %                      | Using Electrical Multifunction Calibrator by direct method                         |
| AC Current Generate <sup>3,5</sup>                                       | (50 Hz to 1 kHz)<br>0.029 mA to 0.32999 mA<br>0.33 mA to 3.29999 mA                                                                                                                                                                                        | 0.40 %<br>0.11 %                                                                               | Using Electrical Multifunction Calibrator by direct method                         |

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|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                               | 3.3 mA to 32.9999 mA<br>33 mA to 329.999 mA<br>0.33 A to 2.99999 A<br>3 A to 20.5 A                                                                      | 0.27 %<br>0.06 %<br>0.08 %<br>0.19 %                      |                                                                                     |
|                                                                               | (50 Hz to 400 Hz)<br>20 A to 1000 A<br>1000 A to 4500 A                                                                                                  | 1.3 %<br>0.6 %                                            | Using Electrical Multifunction Calibrator & 50 Turn Current Coil by direct method   |
| DC Voltage Generate <sup>3,5</sup>                                            | 0 mV to 329.9999 mV<br>0.33 V to 3.299999 V<br>3.3 V to 32.99999 V<br>33 V to 329.9999 V<br>330 V to 1020.000 V                                          | 1 µV + 0.1 %<br>0.06 %<br>0.06 %<br>0.015 %<br>0.015 %    | Using Electrical Multifunction Calibrator by direct method                          |
| DC Resistance Generate <sup>3,5</sup>                                         | 0 Ω to 10.0 Ω<br>10.0 Ω to 100.0 Ω<br>100.0 Ω to 1.0 MΩ<br>1.0 MΩ to 100.0 MΩ<br>100.0 MΩ to 1100 MΩ                                                     | 10 mΩ + 0.12 %<br>0.027 %<br>0.0079 %<br>0.07 %<br>1.8 %  | Using Electrical Multifunction Calibrator (2-wire and 4-wire) by direct method      |
| Frequency Generate <sup>3,5</sup>                                             | 0.01 Hz to 119.99 Hz<br>120.0 Hz to 1199.9 Hz<br>1.200 kHz to 11.999 kHz<br>12.00 kHz to 119.99 kHz<br>120.0 kHz to 1199.9 kHz<br>1.200 MHz to 2.000 MHz | 0.01 %<br>0.011 %<br>0.29 %<br>0.29 %<br>0.12 %<br>0.12 % | Using Electrical Multifunction Calibrator by direct method                          |
| Rotational Speed Simulation (Non- Contact) <sup>5</sup>                       | 10 rpm to 3000 rpm<br>3000 rpm to 999999 rpm                                                                                                             | 1 rpm<br>4 rpm                                            | Using Electrical Multifunction Calibrator by direct method (Simulation – frequency) |
| Capacitance Generate <sup>3,5</sup> (100 Hz to 1 kHz)                         | 220 pF to 1.00 nF<br>1.1 nF to 10.0 µF<br>10 µF to 1.0 mF<br>1 mF to 100 mF                                                                              | 3.9 %<br>0.28 %<br>0.61 %<br>0.92 %                       | Using Electrical Multifunction Calibrator by direct method                          |
| LF Power Generate <sup>3,5</sup> (Active/ Reactive/ Apparent) (single-phase)  | 0.008 W to 18 kW<br>(40 Hz to 70 Hz) and<br>(-1 PF to 1 PF)                                                                                              | 0.47 %                                                    | Using Power / Energy Calibrator by direct method                                    |
| LF Power Generate <sup>3,5</sup> (Active/ Reactive / Apparent) (Three -phase) | 0.008 W to 54 kW<br>(40 Hz to 70 Hz) and<br>(-1 PF to 1 PF)                                                                                              | 0.35 %                                                    | Using Power / Energy Calibrator by direct method                                    |
| DC Power Generate <sup>3,5</sup>                                              | 0.008 W to 25.2 kW                                                                                                                                       | 0.40 %                                                    | Using Power / Energy Calibrator by direct method                                    |
| Energy Generate <sup>3,5</sup> (single-phase)                                 | 1 V to 600 V<br>5 mA to 90 A<br>(-1 PF to 1 PF)                                                                                                          | 2.8 %<br>(of output in kWh)                               | Using Power / Energy Calibrator by direct method                                    |



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|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Energy Generate <sup>3,5</sup><br>(3-phase)                                                                                           | 1 V to 600 V<br>(-1 PF to 1 PF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.62 %<br>(of output in kWh)                                                                                                                                                                                                                              | Using Power / Energy Calibrator by direct method                             |
| Resistance Generate <sup>3,5</sup><br>(High voltage)                                                                                  | 10 kΩ to 10 GΩ<br>(@ 1575 V <sub>pk</sub> )<br>10 kΩ to 100 GΩ<br>(@ 10 kV <sub>pk</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.6 %<br>1.6 %                                                                                                                                                                                                                                            | Using Electrical Multifunction Calibrator by direct method                   |
| Leakage Current <sup>5</sup>                                                                                                          | 0.1 mA to 30 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.70 %                                                                                                                                                                                                                                                    | Using Electrical Multifunction Calibrator by direct method                   |
| Residual Current Device <sup>5</sup>                                                                                                  | Trip Current Ranges:<br>3 mA to 500 mA<br>500 mA to 3000 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.31 %<br>2.8 %                                                                                                                                                                                                                                           | Using Electrical Multifunction Calibrator by direct method                   |
| Oscilloscope:<br>Time base<br>Bandwidth<br>Amplitude<br>@ 1 kHz, Sine Wave <sup>3,5</sup>                                             | 2 ns to 5 s<br>50 kHz to 600 MHz<br>10 mV to 70 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.06 ms<br>3.5 %<br>0.4 mV                                                                                                                                                                                                                                | Using Electrical Multifunction Calibrator with Scope option by direct method |
| Temperature Simulation Generate<br><br>Temperature Indicator / Controller / Recorder / Test Kit / Universal Calibrator <sup>3,5</sup> | -200 °C to 800 °C, Pt 385,100 Ω<br>-200 °C to 630 °C, Pt 3926,100 Ω<br>-200 °C to 630 °C, Pt 3916,100 Ω<br>-200 °C to 630 °C, Pt 385,200 Ω<br>-200 °C to 630 °C, Pt 385,500 Ω<br>-200 °C to 630 °C, Pt 385,1000 Ω<br>-80 °C to 260 °C, Pt Ni 385,120 Ω (Ni 120)<br>-100 °C to 260 °C, Cu 427, 10 Ω<br>600 °C to 1820 °C, B Type<br>0 °C to 2316 °C, C Type<br>-250 °C to 1000 °C, E Type<br>-210 °C to 1200 °C, J Type<br>-250 °C to 1372 °C, K Type<br>-200 °C to 900 °C, L Type<br>-200 °C to 1300 °C, N Type<br>0 °C to 1767 °C, R Type<br>0 °C to 1767 °C, S Type<br>-250 °C to 400 °C, T Type<br>-200 °C to 600 °C, U Type | 0.26 °C<br>0.26 °C<br>0.26 °C<br>0.26 °C<br>0.26 °C<br>0.26 °C<br>0.26 °C<br>0.26 °C<br>0.26 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C<br>0.42 °C | Using Electrical Multifunction Calibrator by direct method                   |
| DC Voltage Measure <sup>4,5</sup>                                                                                                     | 0 mV to 100.0 mV<br>100 mV to 10.0 V<br>10.0 V to 100.0 V<br>100.0 V to 1000.0 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.7 μV + 001 %<br>0.001 %<br>0.001 %<br>0.002 %                                                                                                                                                                                                           | Using 6½ Digit Precision Multimeter by direct method                         |
|                                                                                                                                       | 0 mV to 1 mV<br>1 mV to 10 mV<br>10 mV to 100 mV<br>100 mV to 10.0 V<br>10.0 V to 100.0 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.027 %<br>0.003 %<br>0.0008 %<br>0.0006 %<br>0.0008 %                                                                                                                                                                                                    | Using 8½ Digit Precision Multimeter by direct method                         |

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|---------------------------------------------|---------------------|--------------------------------|-------------------------------------------------------------------|
|                                             | 100.0 V to 1000.0 V | 0.0009 %                       |                                                                   |
|                                             | 0.1 kV to 90 kV     | 0.29 %                         | Using Precision Meter and Precision HV Bench Top by Direct Method |
| AC Voltage Measure <sup>4,5</sup> (@ 50 Hz) | 100 mV to 1 V       | 0.11 %                         | Using 6½ Digit Precision Multimeter by direct method              |
|                                             | 1 V to 10 V         | 0.11 %                         |                                                                   |
|                                             | 10 V to 100 V       | 0.33 %                         |                                                                   |
|                                             | 100 V to 1000 V     | 0.33 %                         | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 100 mV to 1 V       | 0.011 %                        |                                                                   |
|                                             | 1 V to 10 V         | 0.012 %                        |                                                                   |
| DC Current Measure <sup>4,5</sup>           | 10 V to 100 V       | 0.011 %                        | Using Precision Meter and Precision HV Bench Top by Direct Method |
|                                             | 100 V to 1000 V     | 0.018 %                        |                                                                   |
|                                             | 0.1 kV to 70 kV     | 0.49 %                         |                                                                   |
|                                             | 100 µA to 1 mA      | 0.35 %                         | Using 6½ Digit Precision Multimeter by direct method              |
|                                             | 1 mA to 10 mA       | 0.35 %                         |                                                                   |
|                                             | 10 mA to 100 mA     | 0.35 %                         |                                                                   |
| AC Current Measure <sup>4,5</sup> (50 Hz)   | 100 mA to 1.0 A     | 0.06 %                         | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 1 A to 3 A          | 0.08 %                         |                                                                   |
|                                             | 3 A to 10 A         | 0.18 %                         |                                                                   |
|                                             | 10 A to 20 A        | 0.18 %                         | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 50 µA to 1 mA       | 0.0023 %                       |                                                                   |
|                                             | 1 mA to 10 mA       | 0.0023 %                       |                                                                   |
|                                             | 10 mA to 100 mA     | 0.0070 %                       | Using 6½ Digit Precision Multimeter by direct method              |
|                                             | 100 mA to 1.0 A     | 0.0390 %                       |                                                                   |
|                                             | 1 A to 3 A          | 0.045 %                        |                                                                   |
|                                             | 3 A to 10 A         | 0.029 %                        | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 10 A to 20 A        | 0.1 %                          |                                                                   |
|                                             | 20 A to 30 A        | 0.09 %                         |                                                                   |
|                                             | 0 µA to 100 µA      | 100 pA+0.42 %                  | Using 6½ Digit Precision Multimeter by direct method              |
|                                             | 100 µA to 1 mA      | 0.42 %                         |                                                                   |
|                                             | 1 mA to 10 mA       | 0.42 %                         |                                                                   |
|                                             | 10 mA to 100 mA     | 0.42 %                         | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 100 mA to 1.0 A     | 0.16 %                         |                                                                   |
|                                             | 1 A to 3 A          | 0.29 %                         |                                                                   |
|                                             | 3 A to 10 A         | 0.29 %                         | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 50 µA to 1 mA       | 0.048 %                        |                                                                   |
|                                             | 1 mA to 10 mA       | 0.045 %                        |                                                                   |
|                                             | 10 mA to 100 mA     | 0.045 %                        | Using 6½ Digit Precision Multimeter by direct method              |
|                                             | 100 mA to 1.0 A     | 0.06 %                         |                                                                   |
|                                             | 1 A to 3 A          | 0.17 %                         |                                                                   |
|                                             | 3 A to 10 A         | 0.15 %                         | Using 8½ Digit Precision Multimeter by direct method              |
|                                             | 10 A to 20 A        | 0.20 %                         |                                                                   |
|                                             | 20 A to 30 A        | 0.18 %                         |                                                                   |

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|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------|
| DC Resistance Measure <sup>4,5</sup>                                                                                                            | 10 Ω to 100 Ω                         | 0.36 %                         | Using 6½ Digit Precision Multimeter by direct method                                       |
|                                                                                                                                                 | 100 Ω to 1 kΩ                         | 0.023 %                        |                                                                                            |
|                                                                                                                                                 | 1 kΩ to 10 kΩ                         | 0.023 %                        |                                                                                            |
|                                                                                                                                                 | 10 kΩ to 100 kΩ                       | 0.073 %                        |                                                                                            |
|                                                                                                                                                 | 100 kΩ to 1 MΩ                        | 0.073 %                        |                                                                                            |
|                                                                                                                                                 | 1 MΩ to 10 MΩ                         | 0.073 %                        |                                                                                            |
|                                                                                                                                                 | 10 MΩ to 100 MΩ                       | 0.073 %                        |                                                                                            |
|                                                                                                                                                 | 100 MΩ to 1 GΩ                        | 1.4 %                          |                                                                                            |
|                                                                                                                                                 | 10 Ω to 100 Ω                         | 0.0061 %                       | Using 8½ Digit Precision Multimeter by direct method                                       |
|                                                                                                                                                 | 100 Ω to 1 kΩ                         | 0.0014 %                       |                                                                                            |
|                                                                                                                                                 | 1 kΩ to 10 kΩ                         | 0.0014 %                       |                                                                                            |
|                                                                                                                                                 | 10 kΩ to 100 kΩ                       | 0.0014 %                       |                                                                                            |
|                                                                                                                                                 | 100 kΩ to 1 MΩ                        | 0.0080 %                       |                                                                                            |
|                                                                                                                                                 | 1 MΩ to 10 MΩ                         | 0.0080 %                       |                                                                                            |
|                                                                                                                                                 | 10 MΩ to 100 MΩ                       | 0.017 %                        |                                                                                            |
|                                                                                                                                                 | 100 MΩ to 10 GΩ                       | 0.21 %                         |                                                                                            |
| Frequency Measure <sup>4,5</sup>                                                                                                                | 5 Hz to 1 MHz                         | 0.12 %                         | Using 6½ Digit Precision Multimeter by direct method                                       |
|                                                                                                                                                 | 50 Hz to 10 MHz                       | 0.0011 %                       | Using 8½ Digit Precision Multimeter by direct method                                       |
| Capacitance Measure <sup>4,5</sup>                                                                                                              | 1 nF to 100 mF                        | 1.8 %                          | Using 6½ Digit Precision Multimeter by direct method                                       |
|                                                                                                                                                 | 10 nF to 100 mF                       | 0.12 %                         | Using 8½ Digit Precision Multimeter by direct method                                       |
| Temperature Measure <sup>4,5</sup> (PT 100)                                                                                                     | -200 °C to 600 °C                     | 0.26 °C                        | Using 6½ Digit Precision Multimeter by direct method                                       |
| Simulated Temperature (Measure)- (Temperature Indicator / Controller / Recorder / Test Kit / Universal Calibrator / Calibrators) <sup>4,5</sup> | -200 °C to 800 °C, Pt 385             | 0.46 °C                        | Using 6½ Digit Precision Multimeter & Electrical Multifunction Calibrator by direct method |
|                                                                                                                                                 | -200 °C to 630 °C, Pt 3926            | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -200 °C to 630 °C, Pt 3916            | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -200 °C to 630 °C, Pt 385             | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -80 °C to 260 °C, Pt Ni 385, (Ni 120) | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -100 °C to 260 °C, Cu 427             | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | 600 °C to 1820 °C, B Type             | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | 0 °C to 2316 °C, C Type               | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -250 °C to 1000 °C, E Type            | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -210 °C to 1200 °C, J Type            | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -250 °C to 1372 °C, K Type            | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -200 °C to 900 °C, L Type             | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -200 °C to 1300 °C, N Type            | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | 0 °C to 1767 °C, R Type               | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | 0 °C to 1767 °C, S Type               | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -250 °C to 400 °C, T Type             | 0.46 °C                        |                                                                                            |
|                                                                                                                                                 | -200 °C to 600 °C, U Type             | 0.46 °C                        |                                                                                            |

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

| MEASURED QUANTITY or DEVICE TYPE CALIBRATED   | RANGE               | UNCERTAINTY <sup>1,2</sup> (±) | CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)               |
|-----------------------------------------------|---------------------|--------------------------------|------------------------------------------------------------------------------|
| Inductance Generate <sup>3,5</sup><br>@ 1 kHz | 1 mH – 10 H         | 3.4 %                          | Using reference Decade Inductance Box by Direct method                       |
| <b>Time and Frequency</b>                     |                     |                                |                                                                              |
| Rotational Speed (Contact) <sup>5</sup>       | 100 rpm to 4500 rpm | 4.5 rpm                        | Using Reference Tachometer by Comparison method                              |
| <b>Chemical/Gas</b>                           |                     |                                |                                                                              |
| Gas Detector Calibration <sup>6</sup>         |                     |                                | Using Standard Reference Gas and Calibration Docking system by direct method |
| CO                                            | 100 ppm             | 1.1 parts in 10 <sup>6</sup>   |                                                                              |
| O <sub>2</sub>                                | 18.0 %              | 0.11 %                         |                                                                              |
| Cl <sub>2</sub>                               | 10 ppm              | 0.067 part in 10 <sup>6</sup>  |                                                                              |
| H <sub>2</sub> S                              | 25 ppm              | 0.25 part in 10 <sup>6</sup>   |                                                                              |
| LEL                                           | 50 %                | 0.68 %                         |                                                                              |
| CO <sub>2</sub>                               | 0.50 %              | 2.1 parts in 10 <sup>6</sup>   |                                                                              |
| SO <sub>2</sub>                               | 20 ppm              | 0.61 part in 10 <sup>6</sup>   |                                                                              |
| VOC (iso- Butane)                             | 100 ppm             | 1.7 parts in 10 <sup>6</sup>   |                                                                              |
| NH <sub>3</sub>                               | 25 ppm              | 0.10 part in 10 <sup>6</sup>   |                                                                              |
| NO                                            | 50 ppm              | 1.4 parts in 10 <sup>6</sup>   |                                                                              |
| NO <sub>2</sub>                               | 10 ppm              | 0.21 part in 10 <sup>6</sup>   |                                                                              |

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

<sup>2</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

<sup>3</sup>Capability is suitable for the calibration of measuring devices in the stated ranges.

<sup>4</sup>Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

<sup>5</sup>Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.

<sup>6</sup>Only in permanent laboratory.

CW = clockwise

CCW = counter-clockwise

LF = low frequency

PF = power factor

pk = peak

ppm = parts per million

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