



Emirates Calibration Services, NAL 130 Calibration Laboratory, (ISO/IEC 17025:2017)

EMIRATES POST OFFICE BUILDING 3RD FLOOR, MUSSAFFAH M2, ABU DHABI, UAE, Abu Dhabi, United Arab Emirates

Issue Date: 16/01/2024 Expiry Date: 28/04/2025

Issue No: 3

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measurement Range	Expanded Measurement Uncertainty (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P)/Client- site
Electricity. Magnetism. Electrical and magnetic measurements	AC Voltage @ 40 Hz to 100 kHz	1 kV to 150 kV	0.02	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Voltage	1 kV to 150 kV	0.015	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current Source	20 to 600 A	0.0015	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current Source	> 600 to 1000 A	0.04	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	DC Current Source	1000 to 2500 A	0.062	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current Source (40 Hz to 1 kHz)	20 to 600 A	0.0015	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current Source (40 Hz to 1 kHz)	> 600 to 1000 A	0.04	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current Source (40 Hz to 1 kHz)	1000 to 3000 A	0.075	ECS-GCP-E- 01:2019	P S
Measurement of force, weight and pressure	Tension load cell Tension machine	(0 to 20 000) kg	0.003	ECS-GCP-LC- 01:2020	P S
Measurement of force, weight and pressure	Compression load cell Compression machine	(0 to 100 000) kg	0.026	ECS-GCP-LC- 01:2020	P S

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Electricity. Magnetism. Electrical and magnetic measurements	RF Power meter @ 0.1 MHz to 6 GHz	(-140 to 10) dBm	0.13 dB	ECS-GCP- RF-03:2019	Р
Electricity. Magnetism. Electrical and magnetic measurements	AM Modulation meters @ 0.010 GHz to 1.0 GHz	5 % to 25 %	0.011	ECS-GCP- RF-02:2019	Р
Electricity. Magnetism. Electrical and magnetic measurements	AM Modulation meters @ 0.010 GHz to 1.0 GHz	25 % to 50 %	0.018	ECS-GCP- RF-02:2020	Р
Electricity. Magnetism. Electrical and magnetic measurements	AM Modulation meters @ 0.010 GHz to 1.0 GHz	50 % to 75 %	0.026	ECS-GCP- RF-02:2021	Р
Electricity. Magnetism. Electrical and magnetic measurements	AM Modulation meters @ 0.010 GHz to 1.0 GHz	75 % to 90 %	0.03	ECS-GCP- RF-02:2022	Р
Electricity. Magnetism. Electrical and magnetic measurements	FM Modulation @ 20 Hz to 50 kHz	0.5 kHz to 1 kHz	12 Hz	ECS-GCP- RF-02:2023	Р

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Electricity. Magnetism. Electrical and magnetic measurements	FM Modulation @ 20 Hz to 50 kHz	1 kHz to 10 kHz	0.2 kHz	ECS-GCP- RF-02:2024	Р
Electricity. Magnetism. Electrical and magnetic measurements	FM Modulation @ 20 Hz to 50 kHz	10 kHz to 50 kHz	0.9 kHz	ECS-GCP- RF-02:2025	Р
Electricity. Magnetism. Electrical and magnetic measurements	FM Modulation @ 20 Hz to 50 kHz	50 kHz to 200 kHz	3.4 kHz	ECS-GCP- RF-02:2026	Р
Electricity. Magnetism. Electrical and magnetic measurements	PM Modulation @ 20 Hz to 50 kHz	1 rad to 10 rad	0.08 rad	ECS-GCP- RF-02:2027	Р
Electricity. Magnetism. Electrical and magnetic measurements	PM Modulation @ 20 Hz to 50 kHz	10 rad to 25 rad	0.10 rad	ECS-GCP- RF-02:2028	Р
Electricity. Magnetism. Electrical and magnetic measurements	PM Modulation @ 20 Hz to 50 kHz	25 rad to 50 rad	0.15 rad	ECS-GCP- RF-02:2029	Р

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Electricity. Magnetism. Electrical and magnetic measurements	Frequency	20 Hz to 20 GHz	1.8 · 10-7·f	ECS-GCP- RF-01:2019	Р
Electricity. Magnetism. Electrical and magnetic measurements	Optical Power Meter, Laser Source	(-3 to -60) dBm	0.3 dB	ECS-GCP- FO-01:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Single & 3 Phase AC Energy Power Meter	(3.0 to 510) V	0.18 V	ECS-GCP- EM-01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Single & 3 Phase AC Energy Power Meter	(0.02 to 115) A	0.14 A	ECS-GCP- EM-01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Single & 3 Phase AC Energy Power Meter	(-180 to 180) °	0.01 °	ECS-GCP- EM-01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Stopwatch Timer Clock	1 s to 24 h	0.6 s	ECS-GCP-ST- 01:2021	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Time Based Equipment / Oscilloscope / Rise time	10 ns to 5 s	0.0002	ECS-GCP- OS-01: 2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Pulse Width Rise Time	10 μs to 5 s	0.0001	ECS-GCP- OS-01: 2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Overshoot	(1 to 100) mV	0.012	ECS-GCP- OS-01: 2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Voltage @ 40 Hz to 100 kHz	Up to 1 V	0.03 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Voltage @ 40 Hz to 100 kHz	1 V to 10 V	0.30 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Voltage @ 40 Hz to 100 kHz	10 V to 100 V	2.5 mV	ECS-GCP- EM-02:2020	P S

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Electricity. Magnetism. Electrical and magnetic measurements	AC Voltage @ 40 Hz to 100 kHz	100 V to 1 kV	21 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC voltage	Up to 100 mV	0.03 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC voltage	100 mV to 10 V	0.30 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC voltage	10 V to 100 V	3 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC voltage	100 V to 1 kV	30 mV	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current @ 40 Hz to 1 kHz	Up to 100 mA	0.25 mA	ECS-GCP- EM-02:2020	P S

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Electricity. Magnetism. Electrical and magnetic measurements	AC Current @ 40 Hz to 1 kHz	100 mA to 3 A	0.45 mA	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current @ 40 Hz to 1 kHz	3 A to 600 A	2.0 A	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current	Up to 100 mA	0.25 mA	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current	100 mA to 3 A	0.45 mA	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current	3A to 600 A	2.0 A	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	Up to 1 mΩ	0.01 mΩ	ECS-GCP- EM-02:2020	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Resistance	1 to 10 mΩ	0.03 mΩ	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	10 to 100 mΩ	0.25 mΩ	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	100 mΩ to 1 Ω	2.8 mΩ	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	1 Ω to 10 Ω	0.03 Ω	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	10 Ω to 100 Ω	0.25 Ω	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	100 Ω to 1 kΩ	0.25 Ω	ECS-GCP- EM-02:2020	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Resistance	1 kΩ to 10 kΩ	2.5 Ω	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	10 kΩ to 100 kΩ	25 Ω	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	100 kΩ to 1 MΩ	0.03 ΜΩ	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	1 MΩ to 10 MΩ	0.25 ΜΩ	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	10 MΩ to 100 MΩ	2.5 ΜΩ	ECS-GCP- EM-02:2020	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	100 MΩ to 1 GΩ	0.03 GΩ	ECS-GCP- EM-02:2020	P S

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Electricity. Magnetism. Electrical and magnetic measurements	AC Volt meter @ 40 Hz to 100 kHz	3 mV to 33 mV	0.01 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Volt meter @ 40 Hz to 100 kHz	33 mV to 330 mV	0.06 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Volt meter @ 40 Hz to 100 kHz	0.330 V to 3.3 V	0.60 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Volt meter @ 40 Hz to 100 kHz	3.3 V to 33 V	5.9 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Volt meter @ 40 Hz to 100 kHz	33 V to 330 V	0.07 V	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Volt meter @ 40 Hz to 100 kHz	330 V to 1020 V	0.37 V	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	DC Volt meter	3 mV to 33 mV	3.9 µV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Volt meter	33 mV to 330 mV	8.8 µV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Volt meter	0.330 V to 3.3 V	0.04 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Volt meter	3.3 V to 33 V	0.58 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Volt meter	33 V to 330 V	8.4 mV	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Volt meter	330 V to 1020 V	0.02 V	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	3 μA to 33 μA	0.03 μΑ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	33 μA to 330 μA	0.08 μΑ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	0.330 mA to 3.3 mA	5.9 μΑ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	3.3 mA to 33 mA	0.06 mA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	33 mA to 330 mA	0.58 mA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	0.330 A to 3 A	6.0 mA	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	3 A to 20.5 A	0.06 A	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current meter/Clamp meter	20.5 A to 600 A	0.06 A	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	3 μA to 33 μA	0.16 μΑ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	33 μA to 330 μA	0.55 μΑ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	0.330 mA to 3.3 mA	3.8 µA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	3.3 mA to 33 mA	0.02 mA	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	33 mA to 330 mA	0.16 mA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	0.330 A to 3 A	2.8 mA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	3 A to 20.5 A	14 mA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current meter/clamp meter @ 40 Hz to 1 kHz	20.5 A to 600 A	14 mA	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	0.1 Hz to 1 Hz	0.06 Hz	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	1 Hz to 10 Hz	0.07 Hz	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Frequency	10 Hz to 100 Hz	0.09 Hz	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	100 Hz to 1000 Hz	0.58 Hz	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	1 kHz to 10 kHz	5.8 Hz	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	10 kHz to 100 kHz	0.06 kHz	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	100 kHz to 1000 kHz	0.58 kHz	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Frequency	1 MHz to 2 MHz	0.58 kHz	ECS-GCP-E- 01:2019	P S

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Issue Date: 16/01/2024 Expiry Date: 28/04/2025

Issue No: 3

Electricity. Magnetism. Electrical and magnetic measurements	Resistance	0.1 Ω to 11 Ω	0.50 mΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	11 Ω to 33 Ω	0.68 mΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	33 Ω to 110 Ω	1.3 mΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	110 Ω to 330 Ω	10 mΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	0.33 kΩ to 1.1 kΩ	0.06 Ω	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	1.1 kΩ to 3.3 kΩ	0.33 Ω	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Resistance	3.3 kΩ to 11 kΩ	0.46 Ω	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	11 kΩ to 33 kΩ	2.2 Ω	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	33 kΩ to 110 kΩ	4.6 Ω	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	110 kΩ to 330 kΩ	14 Ω	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	0.33 MΩ to 1 MΩ	0.05 kΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	1.1 MΩ to 3.3 MΩ	0.42 kΩ	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Resistance	3.3 MΩ to 11 MΩ	1.8 kΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	11 MΩ to 33 MΩ	19 kΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	33 MΩ to 110 MΩ	0.06 ΜΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	110 MΩ to 330 MΩ	1.4 ΜΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Resistance	0.33 GΩ to 1.1 GΩ	0.02 GΩ	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	0.35 nF to 1.1 nF	0.02 nF	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	1.1 nF to 3.3 nF	0.02 nF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	3.3 nF to 11 nF	0.04 nF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	11 nF to 33 nF	0.15 nF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	33 nF to 109 nF	0.41 nF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	109 nF to 300 nF	0.87 nF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	0.300 μF to 1.09 μF	4.1 nF	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	1.09 μF to 3 μF	7 nF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	3 μF to 10.9 μF	0.04 μF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	10.9 μF to 30 μF	0.09 μF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	30 μF to 109 μF	0.64 μF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	109 μF to 300 μF	0.93 μF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	0.300 mF to 1.09 mF	6.4 µF	ECS-GCP-E- 01:2019	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	1.09 mF to 3 mF	8.7 µF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	3 mF to 10.9 mF	0.06 mF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	10.9 mF to 30 mF	0.12 mF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Capacitance	30 mF to 109 mF	1.5 mF	ECS-GCP-E- 01:2019	P S
Electricity. Magnetism. Electrical and magnetic measurements	Inductance	(1 to <10) µH	0.12	ECS-GCP-E- 01:2021	P S
Electricity. Magnetism. Electrical and magnetic measurements	Inductance	(10 to <100) μΗ	0.013	ECS-GCP-E- 01:2021	P S

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Electricity. Magnetism. Electrical and magnetic measurements	Inductance	(0.1 to < 1) mH	0.002	ECS-GCP-E- 01:2021	P S
Electricity. Magnetism. Electrical and magnetic measurements	Inductance	(0.001 to 1) H	0.0006	ECS-GCP-E- 01:2021	P S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current	(1 to 500) μA	0.05 μΑ	ECS-GCP- EM-02:2020	P/S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current	(> 500 to 5000) µA	0.6 μΑ	ECS-GCP- EM-02:2020	P/S
Electricity. Magnetism. Electrical and magnetic measurements	AC Current	(> 5 to 50) mA	0.06 mA	ECS-GCP- EM-02:2020	P/S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current	(0 to 500) μA	0.05 μΑ	ECS-GCP- EM-02:2020	P/S

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Electricity. Magnetism. Electrical and magnetic measurements	DC Current	(> 500 to 5000) μA	0.6 μΑ	ECS-GCP- EM-02:2020	P/S
Electricity. Magnetism. Electrical and magnetic measurements	DC Current	(> 5 to 50) mA	0.06 mA	ECS-GCP- EM-02:2020	P/S
Thermodynamics and temperature measurements	K - type	(-199 to 1370) °C	0.04 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	N - type	(-199 to 1300) °C	0.04 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	R - type	(0 to 1700) °C	0.09 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	T – type	(-199 to 1370) °C	0.04 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	J – type	(-199 to 1200) °C	0.03 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	S – type	(10 to 1750) °C	0.1 °C	ECS-GCP-T- 01:2021	P S

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Thermodynamics and temperature measurements	E – type	(-199 to 990) °C	0.2 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	RTD-type: 385	(-189 to 660) °C	0.03 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	Pt 100	(-189 to 660) °C	0.03 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	RTD-type: 3916	(-180 to 550) °C	0.2 °C	ECS-GCP-T- 01:2021	P S
Thermodynamics and temperature measurements	Freezer Oven Refrigerator Incubator Furnace	(-60 to 100) °C	0.41 °C	ECS-GCP-T- 01:2020	P S
Thermodynamics and temperature measurements	Freezer Oven Refrigerator Incubator Furnace	(100 to 1000) °C	1.5 °C	ECS-GCP-T- 01:2020	P S
Thermodynamics and temperature measurements	Freezer Oven Refrigerator Incubator Furnace	(-200 to 100) °C	0.3 °C	ECS-GCP-T- 01:2020	P S
Thermodynamics and temperature measurements	Freezer Oven Refrigerator Incubator Furnace	(100 to 420) °C	0.5 °C	ECS-GCP-T- 01:2020	P S
Thermodynamics and temperature measurements	RTD / Thermometer	(-40 to 200) °C	0.08 °C	ECS-GCP-T- 01:2020	Р

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Thermodynamics and temperature measurements	Thermocouple / Bimetallic	(-40 to 200) °C	0.4 °C	ECS-GCP-T- 01:2020	Р
Thermodynamics and temperature measurements	Thermometer Temperature Sensor	(100 to 300) °C	0.6 °C	ECS-GCP-T- 01:2020	P/S
Thermodynamics and temperature measurements	Thermometer Temperature Sensor	(300 to 600) °C	1.5 °C	ECS-GCP-T- 01:2020	P/S
Thermodynamics and temperature measurements	Thermo-hygrometer Data loggers	(-20 to 60) °C	0.6 °C	ECS-GCP-T- 01:2020	Р
Thermodynamics and temperature measurements	Dry Block Temperature Calibrator	(-40 to 600) °C	0.2 °C	ECS-GCP-T- 01:2020	P/S
Thermodynamics and temperature measurements	Environment chambers/Rooms	(20 to 90) % RH (-20 to 60) °C	8 %RH 1.4 °C	ECS-GCP-T- 01:2020	P S
Thermodynamics and temperature measurements	Hygrometers Temp. Humidity Indicators	(20 to 90) %RH (7 to 90) °C	2.2 %RH 1.4 °C	ECS-GCP-T- 01:2020	Р
Measurement of force, weight and pressure	Torque Wrench, Torque Transducer, Torque screwdriver, Torque Calibrator	(0.2 to 2) N.m	0.018	ECS-GCP- TW-01:2021	P S

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Measurement of force, weight and pressure	Torque Wrench, Torque Transducer, Torque screwdriver, Torque Calibrator	(>2 to 40) N.m	0.018	ECS-GCP- TW-01:2021	P S
Measurement of force, weight and pressure	Torque Wrench, Torque Transducer, Torque screwdriver, Torque Calibrator	(> 40 to 1500) N.m	0.018	ECS-GCP- TW-01:2021	P S
Measurement of force, weight and pressure	Tension load cell Tension machine	(1 to 5000) kg	0.003	ECS-GCP-LC- 01:2020	P S
Measurement of force, weight and pressure	Compression load cell Compression machine	(40 to 5000) kg	0.003	ECS-GCP-LC- 01:2020	P S
Measurement of force, weight and pressure	Compression load cell Compression machine	(10 to 100 000) kg	0.026	ECS-GCP-LC- 01:2020	P S
Acoustics and acoustic measurements	Sound Level Meters / Calibrator	94.0 dB 114 dB	0.4 dB	ECS-GCP-SL- 08:2019	Р
Measurement of time, velocity, acceleration, angular velocity	Centrifuges	(0 to 100 000) RPM	1 RPM	ECS-GCP-E- 09:2019	P S
Measurement of time, velocity, acceleration, angular velocity	Tachometer	(0 to 10 000) RPM	1 RPM	ECS-GCP-E- 09:2019	P S

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Measurement of force, weight and pressure	Pressure / Vacuum Pressure Meters, Pressure Sensors, Pressure Transducers	- 0.998 bar to 20 bar	4.2 mbar	ECS-GCP-P- 01:2020	P S
Measurement of force, weight and pressure	Pressure / Vacuum Pressure Meters, Pressure Sensors, Pressure Transducers	0 bar to 700 bar	0.16 bar	ECS-GCP-P- 01:2020	P S
Measurement of force, weight and pressure	Pressure / Vacuum Pressure Meters, Pressure Sensors, Pressure Transducers	-1 bar to 0 bar	1.8 mbar	ECS-GCP-P- 01:2020	P S
Measurement of force, weight and pressure	Pressure / Vacuum Pressure Meters, Pressure Sensors, Pressure Transducers	0 bar to 30 bar	3.9 mbar	ECS-GCP-P- 01:2020	P S
Measurement of force, weight and pressure	Pressure / Vacuum Pressure Meters, Pressure Sensors, Pressure Transducers	30 bar to 70 bar	0.05 bar	ECS-GCP-P- 01:2020	P S
Measurement of force, weight and pressure	Balance	(0 to 200) g	0.65 mg	ECS-GCP-M- 01:2019	P S
Measurement of force, weight and pressure	Balance	(0 to 1000) g	0.82 mg	ECS-GCP-M- 01:2019	P S

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Measurement of force, weight and pressure	Balance	(0 to 5000) g	7.2 mg	ECS-GCP-M- 01:2019	P S
Measurement of force, weight and pressure	Balance	(0 to 20) kg	5.8 g	ECS-GCP-M- 01:2019	P S
Measurement of force, weight and pressure	Balance	(0 to 1000) kg	0.06 kg	ECS-GCP-M- 01:2019	P S
Measurement of force, weight and pressure	Weights	(1 to 500) mg	0.06 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	(1 to 10) g	0.06 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	20 g	0.07 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	50 g	0.09 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	100 g	0.16 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	200 g	0.3 mg	ECS-GCP-M- 02:2019	P S

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Measurement of force, weight and pressure	Weights	(500 to 1000) g	5.8 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	5 kg	5.8 mg	ECS-GCP-M- 02:2019	P S
Measurement of force, weight and pressure	Weights	20 kg	0.58 g	ECS-GCP-M- 02:2019	P S
Linear and angular measurements	Micrometer	(0 to 1000) mm	(3 to 5) μm	ECS-GCP-D- 01:2021	P S
Linear and angular measurements	Dial Gauge / Indicator	(0 to 150) mm	6 µm	ECS-GCP-D- 01:2021	P S
Linear and angular measurements	Caliper	(0 to 1000) mm	(12 – 30) µm	ECS-GCP-D- 01:2021	P S
Linear and angular measurements	Inside diameter measurement	(0 to 300) mm	0.2 mm	ECS-GCP-D- 02:2021	P S
Linear and angular measurements	Outside Diameter and thickness measurements	(0 to 1000) mm	40 μm	ECS-GCP-D- 02:2021	P S
Linear and angular measurements	Depth measurement	(0 to 300) mm	0.2 mm	ECS-GCP-D- 02:2021	P S
Linear and angular measurements	Angle blocks Protractor	0° – 180 °	1 °	ECS-GCP-D- 01:2021	P S

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Emirates Calibration Services, NAL 130 Calibration Laboratory, (ISO/IEC 17025:2017)

EMIRATES POST OFFICE BUILDING 3RD FLOOR, MUSSAFFAH M2, ABU DHABI, UAE, Abu Dhabi, **United Arab Emirates**

Issue Date: 16/01/2024 Expiry Date: 28/04/2025

Issue No: 3

Measurement of volume, mass, density, viscosity	Micropipette	(1 to 2200) µL	0.02	ECS-GCP-M- 03:2020	Р
Measurement of volume, mass, density, viscosity	Graduated Cylinder / Beaker / Flask/Burette/Dispenser/ Glassware	1ml to 220 ml	0.02	ECS-GCP-M- 03:2020	Р
Measurement of volume, mass, density, viscosity	Graduated Cylinder / Beaker / Flask/Burette/Dispenser/ Glassware	220 ml to 30 liter	0.06	ECS-GCP-M- 03:2020	Р
OXYGEN	GAS DETECTOR	0 to 100%	10%	ECS-GCP- GFA-01	P S
LEL	GAS DETECTOR	0 to 100%	10%	ECS-GCP- GFA-01	P S
H2S	GAS DETECTOR	0 to 100%	10%	ECS-GCP- GFA-01	P S
СО	GAS DETECTOR	0 to 100%	10%	ECS-GCP- GFA-01	P S
END					

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification.



هذه الشهادة صدرت إلكترونياً ولا تحتاج لختم أو توقيع، أي كشط أو تغيير في هذه الشهادة يلغيها.

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