جمهوری اسلامی ایران
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National Accreditation Center of Iran
مرکز ملی تایید صلاحیت ایران

شماره انحصاری
تایید صلاحیت
NACI/Lab/۲۰۶۳
تاریخ و محل اعطا گواهینامه :
۱۴۰۲/۱۰/۰۵- تهران
تاریخ صدور مجدد گواهینامه: ---
تاریخ اصلاح گواهینامه:
تاریخ خاتمه اعتبار گواهینامه:
۱۴۰۵/۱۰/۰۵

گواهینامه تایید صلاحیت آزمایشگاه
Laboratory Accreditation Certificate

The National Accreditation Center of Iran (NACI) herewith confirms that body:

Sehat Sanjesh Aria

Address: Aria Biulding , Auto technologi city, sanat road, Disel Abad section, Tabriz,T,I.R.IRAN
Postal Code: 5197913621
Tel:+98(41)34486440-3
Fax :+98(41)34486560
Web Site : www.ssalab.ir

Has fulfilled the **INSO -ISO/IEC 17025:2017**
And is competent to carry out□Test ■Calibration services according to accreditation scope are listed in 40 page/s of annex.

- Validity Of Accreditation Depends On Continuity Of Compliance With The Relevant Requirements And Obtaining The Approval Based On The Annual Surveillance Assessment.
- The Unique Identification Number Of This Accreditation Certificate And All Attachments Are The Same
- To Control The Originality Of This Certificate, Visit The Website Of NACI.(**naciportal.inso.gov.ir**)

Dr.S.M.Hashemi
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مرکز ملی تأیید صلاحیت ایران بدین وسیله تأیید می‌نماید که نهاد :

صحت سنجش آریا

نشانی: ایران، تبریز، بلوار دیزل آباد، بلوار صنعت، شهرک فناوری خوردرو، ساختمان آریا
کد پستی: ۵۱۹۷۹۱۳۶۲۱
تلفن: ۳-۳۴۴۸۶۴۴۰ -۰۴۱
دورنگار : ۳۴۴۸۶۵۶۰ -۰۴۱
سایت اینترنتی : www.ssalab.ir

الزامات استاندارد **ایران-ایزو/آی ای سی ۱۷۰۲۵:۲۰۱۷** رارعایت نموده است.
و صلاحیت انجام خدمات آزمون□کالیبراسیون■مطابق دامنه کاربردی که جزئیات آن در ۴۰ برگ پیوست آمده است را داراست.

- اعتبار تایید صلاحیت منوط به استمرار انطباق با الزامات مربوطه و اخذتاییدیه در ارزیابیهای مراقبتی سالیانه است.
- شماره انحصاری شناسایی در این گواهینامه تایید صلاحیت و کلیه پیوستها یکسان است.
- جهت کنترل اصالت این گواهینامه به پایگاه اطلاع رسانی مرکز ملی تایید صلاحیت ایران مراجعه نمایید. (**naciportal.inso.gov.ir**)

اللهم عجل لولیک الفرج
دکتر سید محمود هاشمی
رئیس مرکز ملی تایید صلاحیت ایران

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Annex
Accreditation Scope of Sehat Sanjesh Aria

1-Dimensions

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	External Caliper	up to 100 mm	(0.026L+0.011) µm, L:mm	INSO 16761:2020/ Grade 0 gauge block Grade 1 Long Gauge Blocks
		(100 to 1000) mm	(0.026L +0.05) µm, L:mm	
2	Internal Caliper	up to 100 mm	(0.026L+0.011) µm, L:mm	
		(100 to 1000) mm	(0.026L +0.05) µm, L:mm	
3	depth Caliper	up to 100 mm	(0.026L +0.011) µm, L:mm	INSO 16761:2020/ Grade 0 gauge block Grade 1 Long Gauge Blocks Grade 0 Surface Plate
		(100 to 500) mm	(0.026L +0.05) µm, L:mm	
4	External Micrometer	up to 100 mm	(0.026L +0.011) µm, L:mm	DIN 863: 2017 JIS B 7502: 2016 Grade 0 Gauge Block Grade 1 Long Gauge Blocks Grade 2 Optical Flatness Gauge
		(100 to 500) mm	(0.026L +0.05) µm, L:mm	
5	Internal Micrometer	up to 100 mm	(0.026L +0.011) µm, L:mm	DIN 863: 2017 JIS B 7502: 2016 Grade 0 Gauge Block Grade 1 Long Gauge Blocks
		(100 to 500) mm	(0.026L +0.05) µm, L:mm	
6	Depth Micrometer	up to 100 mm	(0.026L +0.011) µm, L:mm	DIN 863: 2017 BS 6468:2008 Grade 0 Gauge Block Grade 1 Long Gauge Blocks
		(100 to 500) mm	(0.026L +0.05) µm, L:mm	

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No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
7	Head Micrometer	up to 50 mm	(0.026L +0.011) µm, L:mm	DIN 863: 2017 JIS B 7502: 2016 Grade 0 Gauge Blocks
8	Three point internal Micrometer	20 to 100 mm	(0.004L+1.53) µm, L:mm	DIN 863: 2017 Grade 0 Gauge Blocks Ring Gauge Sets
9	Dial Indicator	up to 2 mm	(0.006L +0.35) µm, L:mm	DIN 2270: 2017 JIS B 7503: 2017 Grade 0 Gauge Blocks Dial Gauge Calibrator
10	Dial Indicator (resolution:0.01mm)	up to 25 mm	(0.025L+0.3) µm, L:mm	DIN 878: 2018 JIS B 7503: 2017 Dial Gauge Calibrator
11	Radiometer	up to 25 mm	(0.011L+3.46) µm, L:mm	IS 5273: 1969 VMM (EASSON SP-4030)
12	Chaplin gear	up to 25 mm	(0.011L+3.46) µm, L:mm 6"	IS 4211: 2019 VMM (EASSON SP-4030)
13	Laboratory Sieve	(0.3 to125) mm	(0.011L+3.46) µm, L:mm	ASTM E11-04: 2020 ISO 3310-1: 2016 VMM (EASSON SP-4030)

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14	Applicator	up to 1000 µm	(0.011L+3.46) µm, L:mm 6"	ASTM D823: 2018 LVDT Probe (C 1216) VMM (EASSON SP-4030)
15	Grindometer	up to 100 µm	(0.006L +0.35) µm, L:mm	ISO 1524: 2020 LVDT Probe (C 1216) Grade 0 Surface Plate
16	Grindopack	up to 100 µm	(0.006L +0.35) µm, L:mm	
17	Geometric Dimension Measurement (with VMM)	X:up to 400 mm Y:up to 300 mm Z: up to 250 mm	(0.01L+3) µm, L:mm 6"	ISIRI-4723: 2004/ VMM (EASSON SP-4030) Sine Table
18	Profile Projector and VMM*	up to 400 mm	(0.017L+0.94) µm, L:mm 6"	ISIRI-7139: 2004/ Grade 0 Gauge Blocks Grade 1 Angle Gauge Blocks Glass Gauge (400mm)
19	Coating thickness gauge	up to 1.5 mm	0.3 µm	ISO 2808: 2019/ Thickness Films
20	Thickness gauge	up to 10 mm	(0.026L+0.05) µm, L:mm	DIN 878: 2018 JIS B 7503: 2017/ Grade 0 Gauge Blocks

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21	Coating thickness foil		up to 1.5 mm	(0.006L +0.35) µm, L:mm	ISO 2808: 2019/ LVDT Probe (C 1216) Grade 0 Gauge Blocks
22	Protractor		up to 180°	7"	INSO 4898:2020 BS 1685: 2008/ Grade 1 Angle Gauge Blocks VMM (EASSON SP-4030)
23	Filler gauge		up to 3 mm	(0.006L +0.35) µm, L:mm	DIN 2275: 2014 INSO 20050: 1394 LVDT Probe (C 1216) Grade 0 Gauge Blocks
24	Go, no Go Pipe plug gauges		(10 to 200) mm	(0.026L+0.33) µm, L:mm	ISO 284: 2012 ULM Probe (C 1216)
25	Go, no Go Pipe thread plug gauges		(10 to 200) mm	(0.026L+0.6) µm, L:mm	DIN 13:1999 ULM Probe (C 1216) Three Wire
26	square	perpendicular	up to 400 mm	8.1 µm	DIN 875: 2008 Grade 0 Surface Plate Grade 00 Granite Square, Grade 0 Gauge Blocks
		Straight		2.4 µm	
		Flatness		1.8 µm	

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No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
27	Cross Cut	up to 20 mm	(0.01L+3) µm, L:mm 6"	ISO 2409: 2020 VMM (EASSON SP-4030)
28	Level	up to 200 mm	0.015 mm/m	DIN 877:1986 Grade 0 Surface Plate Grade 0 Gauge Blocks Sine Table
29	Ruler	up to 1000 mm	29.4 µm	INSO 1978: 2012 Reference Meter VMM (EASSON SP-4030)
30	tapes	up to 5 m	(0.015L+0.02) mm, L:m	INSO 231:2017 Reference Meter VMM (EASSON SP-4030)
31	circometer tape	(20 to 600) mm	(0.0033L+3) µm, L:mm	ISIRI 4723: 2011 Diameter Ring Sets VMM (EASSON SP-4030)
32	Sine Bars and Sine Plates	up to 300 mm	3 µm	DIN 2273:1979 Grade 0 Surface Plate Dial Indicator Grade 0 Gauge Blocks

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2 - Mass

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Weight (OIML Class F2)	1 mg	0.008 mg	OIML R111-1/2004: OIML class E_2, F_1 Weights, Digital Balances
		2 mg	0.008 mg	
		5 mg	0.008 mg	
		10 mg	0.008 mg	
		20 mg	0.008 mg	
		50 mg	0.008 mg	
		100 mg	0.009 mg	
		200 mg	0.009 mg	
		500 mg	0.009 mg	
		1 g	0.009 mg	
		2 g	0.011 mg	
		5 g	0.012 mg	
		10 g	0.042 mg	
		20 g	0.036 mg	
		50 g	0.094 mg	
		100 g	0.16 mg	
		200 g	0.27 mg	
		500 g	1.1 mg	
		1 kg	1.9 mg	
		2 kg	8.9 mg	
		5 kg	12 mg	
2	Weight (OIML Class M1)	10 kg	84 mg	OIML R111-1/2004: OIML class F_1 Weights, Digital Balances
		20 kg	89 mg	

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No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
3	Balances*	up to 1 kg	(0.0018M+0.0231) mg, M:g	INSO 6589-1: 2017/ OIML class F_1, F2 , M1 Weights
		(1 to 5) kg	(2.002M-0.2248) mg, M:kg	
		(5 to 10) kg	(2.111M-0.77) mg, M:kg	
		(10 to 20) kg	(1.531M+5.026) mg, M:kg	
		(20 to 30) kg	(1.918M-2.71) mg, M:kg	
4	Bascule *	up to 2000 kg	(0.058M) M:kg	INSO 6589-1: 2017/ OIML class F_2, M_1 Weights

3 – Volume

No.	Quantity, Measuring Instrument, Material Measure			Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Volumetric glass containers	Pipette	Single Sign	(0.5 to 200) mL	(0.12 V+0.022) µL, V:mL	ISO 4787: 2021/ Digital Balances with 0.01 mg, 0.1 mg Resolution
			Graduated	(0.5 to 25) mL	(0.12 V+0.022) µL, V:mL	
		Graduated cylinders		(5 to 4000) mL	$(1.2\times10^{-4}V+3\times10^{-6})$ mL, V:mL	ISO 4787: 2021/ Digital Balances

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No.	Quantity, Measuring Instrument, Material Measure		Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
		balloon	(5 to 5000) mL	$(1.2\times10^{-4}V+4.1\times10^{-6})$ mL, V:mL	with 0.01 mg, 0.1 mg, 1 mg, 0.01 g Resolution
		Burette	(0.5 to 200) mL	(0.12 V+0.022) µL, V:mL	
		Pycnometer	(5 to 200) mL	(0.024V+0.011) µL, V:mL	
2	Piston volume containers	Micro Pipette	(10 to 1000) µl	$(1.1\times10^{-4}$ V+0.05) µL, V:µL	ISIRI 11504-6: 2009 / Digital Balances with 0.01 mg, 0.1 mg Resolution
			(1000 to 10000) µL	(0.024V+0.011) µL, V:µL	
		Dispenser	(1 to 100) mL	(0.024V+0.011) µL, V:mL	
3	Volumetric scales		5 L	0.616 mL	ISIRI 416: 2006/ Digital Balances with 0.01 g, 0.1 g Resolution
			10 L	1.216 mL	
			20 L	2.416 mL	

4- Temperature

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Electric furnace and Dry block baths	(-35 to 0) °C	0.07 °C	EURAMET cg-13: 2015 / PT100, TC, Indicator
		(0 to 140) °C	0.15 °C	
		(140 to 600) °C	0.38 °C	
		(600 to 1000) °C	1.1°C	
2	Refrigerator, Freezer*	(-35 to 10) °C	0.29 °C	INSO 13700-2: 2020/

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No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
				PT100, Indicator
3	Oven, Incubator, Bain-marie, Industrial furnace*	(-35 to 0) °C	0.29 °C	EURAMET cg-20: 2011/ PT100, TC, Indicator
		(0 to 140) °C	0.33 °C	
		(140 to 600) °C	0.64 °C	
		(600 to 1000) °C	1.3 °C	
4	Resistance Thermometers	(-35 to 140) °C	0.37 ºC	IEC 60751: 2022 / PT100, Calibration Bath, Furnace, Indicator
		(140 to 600) °C	1.1 ºC	
5	Thermocouple	(-35 to 140) °C	0.37 ºC	INSO 2552:2021/ calibration bath, Furnace PT100, TC, Indicator
		(140 to 600) °C	1.1 ºC	
		(600 to 1000) °C	1.4 °C	
6	Filled system and Bimetallic Thermometers	(-35 to 140) ºC	0.33 ºC	ISIRI 6176:2002/ calibration bath, PT100, Indicator
		(140 to 250) ºC	0.64 ºC	
7	Partial Liquid in Glass Thermometers	(-35 to 140) ºC	0.33 ºC	ISIRI 10313:2008/ calibration bath, PT100, Indicator
		(140 to 250) ºC	0.64 ºC	
8	Humidity chamber*	(11 to 85) %RH @25°C	1.3 %RH	EURAMET cg-20: 2011/Humidity probe
9	Environmental thermometer	(0 to 50) °C	0.52°C	ISIRI 1354:1370/ Temperature chamber
10	Environmental hygrometer	(30 to 85) %RH	2.3 %RH	Humidity chamber
11	Infrared Thermometer	(50 to 100) °C	0.9 °C	ASTM E 2847: 2021/ Black body Furnace
		(100 to 300) °C	1.8 °C	
		(300 to 500) °C	3.2 °C	

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12	Autoclave* (Except medical use)			(100 to 134) °C	0.4 °C	ISIRI 4586:1377/Temperature and pressure data loggers
				(0 to 4) bar	0.04 bar	
13	electrical simulation * (source)	Thermocouple	Type K	(-270 to -200) °C	1 °C	EURAMET cg-11: 2011/Multi Calibrator
				(-200 to 1370) °C	0.3 °C	
			Type J	(-210 to 1200) °C	0.3 °C	
			Type T	(-270 to -180) °C	0.7 °C	
				(-180 to -70) °C	0.3 °C	
				(-70 to 400) °C	0.2 °C	
			Type B	(50 to 500) °C	2 °C	
				(500 to 1200) °C	1 °C	
				(1200 to 1820) °C	0.6 °C	
			Type R	(-50 to 0) °C	1.5 °C	
				(0 to 300) °C	1 °C	
				(300 to 1769) °C	0.6°C	
			Type S	(-50 to 0) °C	1.3 °C	
				(0 to 100) °C	1 °C	
				(100 to 1769) °C	0.7 °C	
			Type E	(-270 to -150) °C	0.5 °C	
				(-150 to 1000)	0.2 °C	

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				°C		
			Type N	(-270 to -20) °C	0.5 °C	
				(-20 to 1300) °C	0.3 °C	
		RTD	PT 50	(-200 to 850) °C	0.5 °C	
			PT 100	(-200 to 850) °C	0.25 °C	
			PT 200	(-200 to 850) °C	0.6 °C	
			PT 500	(-200 to 850) °C	0.4 °C	
			PT 1000	(-200 to 400) °C	0.2 °C	
14	electrical simulation ❋ (Measure)	Thermocouple	Type K	(-270 to -200) °C	2 °C	EURAMET cg-11: 2011/Multi Calibrator
				(-200 to 1370) °C	0.6 °C	
			Type J	(-210 to 1200) °C	0.5 °C	
			Type T	(-270 to -180) °C	1.4 °C	
				(-180 to -70) °C	0.5 °C	
				(-70 to 400) °C	0.3 °C	
			Type B	(50 to 500) °C	4 °C	
				(500 to 1200) °C	2 °C	
				(1200 to 1820) °C	1 °C	
			Type R	(-50 to 0) °C	3 °C	
				(0 to 300) °C	2 °C	
				(300 to 1769) °C	1 °C	
			Type S	(-50 to 0) °C	2.5 °C	
				(0 to 100) °C	1.9 °C	

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				(100 to 1769) °C	1.4 °C	
			Type E	(-270 to -150) °C	0.9 °C	
				(-150 to 1000) °C	0.4 °C	
			Type N	(-270 to -20) °C	1 °C	
				(-20 to 1300) °C	0.6 °C	
		RTD	PT 50	(-200 to 850) °C	0.5 °C	
			PT 100	(-200 to 850) °C	0.25 °C	
			PT 200	(-200 to 850) °C	0.6 °C	
			PT 500	(-200 to 850) °C	0.4 °C	
			PT 1000	(-200 to 400) °C	0.2 °C	

5- Pressure

No.	Quantity, Measuring Instrument, Material Measure		Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Vacuum gauge and pressure gauge with elastic elements*	Pneumatic	(-0.8 to 20) bar	0.07% rdg+0.035% F.S.	DKD-R 6-1:2014, DIN EN 837-1:1997, DIN EN 837-3:1997/ Pressure calibrator, Dead weight tester
	Pressure gauge with elastic elements	Pneumatic	(20 to100) bar	0.46% F.S.	
		Hydraulic	(5 to 700) bar	0.017% rdg	

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No.	Quantity, Measuring Instrument, Material Measure		Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
2	Safety Valve ,P&V Valve Performance test* Size: up to 6 inch	Pneumatic	(-0.8 to 20) bar	0.07% rdg+0.035% F.S.	ISO 4126-1:2013/ Reference pressure gauge
			(20 to100) bar	0.46% F.S.	
		Hydraulic	(0 to 100) bar	0.46% F.S.	
3	Electromechanical pressure gauge (Transmitter & Transducer)	Hydraulic	(5 to 700) bar	0.017% rdg	ASTM D5720:1995, EA-10/17:2002/ Dead weight tester
4	Pressure switches*	Pneumatic	(-0.8 to 20) bar	0.07% rdg+0.035% F.S.	DIN EN 837-1:1997, DIN EN 837-3:1997/ Pressure calibrator
			(20 to100) bar	0.46% F.S.	
		Hydraulic	(0 to 100) bar	0.46% F.S.	
5	Dead Weight tester (Accuracy: 0.15% rdg)		(5 to 700) bar	0.057% rdg	OIML R110:1994, EURAMET cg-3:2011/ Dead weight tester
6	Liquid column manometer		(0 to 1000) mmH_2O	0.07% rdg+0.035% F.S.	EURAMET 17-4:2022/ References manometer

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6- Torque

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Torque meter	(100 to 2000) N.m	2.3% F.S.	ISO 6789-1:2017/ AEP torque transducer
2	Torque tester	(100 to 2000) N.m	0.23% rdg	INSO 15915: 2019/ Beam Arm, Standard mass

7- Force

No.	Quantity, Measuring Instrument, Material Measure			Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Tensile machines*	Force	Compression	up to 2 t	0.2% rdg	ISO7500-1: 2018 /Comparison Method
				(2 to 5) t	0.1% rdg	
				(5 to 20) t	0.15% rdg	
				(20 to 150) t	0.1% rdg	
			Tension	up to 2 t	0.1% rdg	
				(2 to 5) t	0.15% rdg	
				(5 to 20) t	0.2% rdg	
		Displacement		1000 mm	(0.04L+0.02) mm	
		Velocity		500 mm/min	0.0012% F.S.	
2	Load Cell	Compression		up to 2 t	0.146% rdg	ISO 376: 2011/ Comparison method Class 0.5, 1, 2
				(2 to 5) t	0.086% rdg	
				(5 to 20) t	0.133% rdg	
				(20 to 100) t	0.083% rdg	
		Tension		up to 2 t	0.092% rdg	
				(2 to 5) t	0.091% rdg	
				(5 to 20) t	0.125% rdg	

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8- Anemometer

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Anemometer	(2 to 30) m/s	2.1% F.S.	ISO17713-1:2009/ wind tunnel, pitot tube

9- Flow

No.	Quantity, Measuring Instrument, Material Measure		Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Liquid flow meters (Gravimetric method)	(1/2 to 10) inch	(12.5 to 2000) l/min	0.6% rdg	ISO 4185:1997/ Liquid Gravity meter
2	Liquid flow meters* (Ultrasonic method)	(25 to 250) mm	(0.43 to 12) m/s	1.2% rdg	ISO 4185:1997/ Ultrasonic flow meter
3	Gas flow meters	(0.5 to 2) inch	(30 to 300) l/min	0.4% rdg	NIST 250-49:1998/ gas gravity meter

10- Electrical

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	DC Voltage Generation	(0 to 320.00) mV	0.0069% rdg+4.84 µV	Calibration System (Multi Calibrator FLUKE 9100)
		(0.32001 to 3.20000) V	0.0069% rdg+48.38 µV	
		(3.2001 to 32.0000) V	0.0075% rdg+483.8 µV	
		(32.001 to 320.000) V	0.0075% rdg+5.21 mV	

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		(320.01 to 1050.00) V		0.0069% rdg+23.75 mV	
2	AC Voltage Generation	(0 to 10.000) mV	10 Hz to 3kHz	0.046% rdg+443.41µV	Calibration System (Multi Calibrator FLUKE 9100)
			(3 to 10) kHz	0.046% rdg+591.21 µV	
			(10 to 30) kHz	0.069% rdg+1.11 mV	
			(30 to 50) kHz	0.1% rdg+2.22 mV	
			(50 to 100) kHz	0.23% rdg+5.91 mV	
		(10.001 to 32.000) mV	10 Hz to 3kHz	0.046% rdg+110.85 µV	
			(3 to 10) kHz	0.046% rdg+147.8 µV	
			(10 to 30) kHz	0.069% rdg+277.13 µV	
			(30 to 50) kHz	0.1% rdg+554.26 µV	
			(50 to 100) kHz	0.23% rdg+1.48 mV	
		(32.001	10 Hz to	0.046% rdg+22.18	

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		to 320.01) mV	3kHz	µV	
			(3 to 10) kHz	0.046% rdg+29.57 µV	
			(10 to 30) kHz	0.069%rdg+55.43 µV	
			(30 to 50) kHz	0.1% rdg+110.85 µV	
			(50 to 100) kHz	0.23% rdg+295.6 µV	
		(0.32001 to 3.20000) V	10 Hz to 3kHz	0.046% rdg+221.78µV	
			(3 to 10) kHz	0.046% rdg+295.7 µV	
			(10 to 30) kHz	0.069% rdg+554.3µV	
			(30 to 50) kHz	0.1% rdg+1.11 mV	
			(50 to 100) kHz	0.23% rdg+2.96 mV	
		(3.2001 to 32.0000) V	10 Hz to 3kHz	0.046% rdg+2.22 mV	
			(3 to 10) kHz	0.069% rdg+2.96 mV	
			(10 to 30)	0.092% rdg+5.54	

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			kHz	mV	
			(30 to 50) kHz	0.17% rdg+11.09 mV	
			(50 to 100) kHz	0.4% rdg+36.95 mV	
		(32.001 to 105.000) V	10 Hz to 3kHz	0.046% rdg+7.3 mV	
			(3 to 10) kHz	0.069% rdg+9.72 mV	
			(10 to 30) kHz	0.092% rdg+18.25 mV	
			(30 to 50) kHz	0.17% rdg+36.38 mV	
			(50 to 100) kHz	0.4% rdg+121.24 mV	
		(105.001 to 320.000) V	(40 to 100) Hz	0.058% rdg+22.18mV	
			Hz to 1 ۱۰۰ kHz	0.058% rdg+22.18mV	
			(1 to 3) kHz	0.092% rdg+22.18mV	
			(3 to 10) kHz	0.092% rdg+36.95mV	
			(10 to 20)	0.14% rdg+55.43mV	

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			kHz		
			(20 to 30) kHz	0.17% rdg+73.9mV	
		(320.01 to 800.00) V	(40 to 100) Hz	0.058% rdg+72.97mV	
			Hz to 1 ۱۰۰ kHz	0.058% rdg+72.97mV	
			(1 to 3) kHz	0.092% rdg+72.79mV	
			(3 to 10) kHz	0.092% rdg+121.38mV	
			(10 to 20) kHz	0.14% rdg+182.53mV	
			(20 to 30) kHz	0.17% rdg+242.6mV	
		(800.01 to 1050.00) V	(40 to 100) Hz	0.058% rdg+145.6 mV	
			Hz to 1 ۱۰۰ kHz	0.058% rdg+145.6 mV	
			(1 to 3) kHz	0.092% rdg+145.6 mV	
			(3 to 10) kHz	0.092% rdg+242.6 mV	
			(10 to 20)	0.14% rdg+363.8	

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			kHz	mV	
3	DC Current Generation	(0.000 to 320.000) µA		0.016% rdg+12.71 nA	Calibration System (Multi Calibrator FLUKE 9100)
		(0.32001 to 3.20000) mA		0.016% rdg+96 nA	
		(3.2001 to 32.0000) mA		0.016% rdg+1.04 µA	
		(32.001 to 320.000) mA		0.0185% rdg+11.1 µA	
		(0.32001 to 3.20000) mA		0.069% rdg+136.38 µA	
		(3.2001 to 10.5000) A		0.064% rdg+1.087 mA	
		(10.5001 to 20.0000) A		0.064% rdg+5.2 mA	
4	DC Current Generate with 10 Turn Coil	(3.2001 to 32.0000) A		0.09% rdg+1.36 mA	Calibration System (Multi Calibrator FLUKE 9100)
		(32.001 to 105.000) A		0.09% rdg+10.87 mA	
		(105.001 to 200.000) A		0.09% rdg+51.96 mA	
5	DC Current Generation with 50 Turn Coil	(16.001 to 160.000) A		0.09% rdg+6.84 mA	Calibration System (Multi Calibrator FLUKE 9100)
		(160.01 to 525.00) A		0.08% rdg+54.58 mA	
		(525.01 to 1000.00) A		0.08% rdg+259.9 mA	

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6	AC Current Generation	(0.000 to 32.000) µA	10 Hz to 3kHz	0.08% rdg+1.04 µA	Calibration System (Multi Calibrator FLUKE 9100)
			(3 to 10) kHz	0.12% rdg+2.08 µA	
			(10 to 20) kHz	0.23% rdg+6.93 µA	
			(20 to 30) kHz	0.29% rdg+10.39 µA	
		(32.001 to 320.000) µA	10 Hz to 3kHz	0.081% rdg+346.4 nA	
			(3 to 10) kHz	0.12% rdg+692.8 nA	
			(10 to 20) kHz	0.23% rdg+2.31 µA	
			(20 to 30) kHz	0.29% rdg+3.46 µA	
		(0.32000 to 3.2000) mA	10 Hz to 3kHz	0.08% rdg+346.45 nA	
			(3 to 10) kHz	0.12% rdg+692.84 nA	
			(10 to 20) kHz	0.23% rdg+2.31 µA	
			(20 to 30) kHz	0.29% rdg+3.46 µA	

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		(3.2001 to 32.0000) mA	10 Hz to 3kHz	0.08% rdg+3.7 µA	
			(3 to 10) kHz	0.12% rdg+7.39 µA	
			(10 to 20) kHz	0.23% rdg+14.78 µA	
			(20 to 30) kHz	0.29% rdg+25.87 µA	
		(32.001 to 320.000) mA	10 Hz to 3kHz	0.092% rdg+36.95 µA	
			(3 to 10) kHz	0.12% rdg+55.43 µA	
			(10 to 20) kHz	0.23% rdg+73.9 µA	
			(20 to 30) kHz	0.29% rdg+110.9 µA	
		(0.32001 to 3.20000) A	10 Hz to 3kHz	0.12% rdg+554.3 µA	
			(3 to 10) kHz	0.29% rdg+2.96 mA	
		(3.2001 to 10.5000) A	10 Hz to 3kHz	0.23% rdg+3.46 mA	
			(3 to 10) kHz	0.58% rdg+11.55 mA	

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		(10.5001 to 20.0000) A	10 Hz to 3kHz	0.23% rdg+7.97 mA	
			(3 to 10) kHz	0.58% rdg+26.56 mA	
7	AC Current Generation with 10 Turn Coil	(3.2001 to 32.0000) A	(10 to 100) Hz	0.23% rdg+6.35 mA	Calibration System (Multi Calibrator FLUKE 9100)
			(100 to 440) Hz	0.9% rdg+31.18 mA	
		(32.001 to 200.000) A	10 Hz to 3kHz	0.24% rdg+103.92 mA	
			(3 to 10) kHz	0.77% rdg+0.29 A	
8	AC Current Generation with 50 Turn Coil	(16.001 to 160.000) A	(10 to 100) Hz	0.23% rdg+32.34 mA	Calibration System (Multi Calibrator FLUKE 9100)
			(10 to 100) Hz	0.24% rdg+0.52 A	
		(3.2001 to 32.0000) A	(10 to 100) Hz	0.23% rdg+6.35 mA	
			(100 to 440) Hz	0.9% rdg+31.18 mA	
9	Resistance Generation	(0.1000 to 40.0000) Ω		0.029% rdg+11.55 mΩ	Calibration System (Multi Calibrator
		(40.001 to 400.000) Ω		0.017% rdg+23.1 mΩ	

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		(0.40001 to 4.00000) kΩ	0.017% rdg+92.56 mΩ	FLUKE 9100)
		(4.0001 to 40.0000) kΩ	0.017% rdg+925.6 mΩ	
		(40.001 to 400.000) kΩ	0.02% rdg+9.26 Ω	
		(0.40001 to 4.00000) MΩ	0.023% rdg+115.6 Ω	
		(4.0001 to 40.0000) MΩ	0.058% rdg+2.31 kΩ	
		(40.001 to 100.000) MΩ	0.069% rdg+46.2 kΩ	
10	Fix Resistance Generation	13 µΩ	0.04 µΩ	Calibration System (Multi Calibrator FLUKE 9100) Shunt Box
		36 µΩ	0.05 µΩ	
		70 µΩ	0.06 µΩ	
		101 µΩ	0.07 µΩ	
		161 µΩ	0.11 µΩ	
		197 µΩ	0.15 µΩ	
		20 Ω	6 mΩ	
		180 Ω	27 mΩ	
		200 Ω	29.44 mΩ	
		1800 Ω	0.27 Ω	
		100 kΩ to 1 MΩ	0.25% rdg	
		(1 to 10) MΩ	0.25% rdg	

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			(10 to 100) MΩ		0.25% rdg	
			100MΩ to 1GΩ		0.25% rdg	
			(1 to 42) GΩ		0.25% rdg	
11	Capacity Generation		(0.5000 to 4.0000) nF		0.35% rdg+17.3 pF	Calibration System (Multi Calibrator FLUKE 9100)
			(4.0001 to 40.000) nF		0.35% rdg+34.6 pF	
			(40.001 to 400.00) nF		0.35% rdg+184.8 pF	
			400.01nF to 4.0000µF		0.46% rdg+1.85 nF	
			(4.0001 to 40.000) µF		0.58% rdg+18.48 nF	
			(40.001 to 400.00) µF		0.58% rdg+184.8 nF	
			400.01µF to 4.0000 mF		0.58% rdg+1.85 µF	
			(4.0001 to 40.000) mF		1.15% rdg+69.28 µF	
12	Frequency Generation		0.1 Hz to 10 MHz		30 ppm	Function/Arbitrary Waveform Generator (RIGOL DG 3101A)
			(10 to 50) MHz		3.5 µHz+1Count	
			(50 to 100) MHz		0.05% rdg-1.5 MHz	
13	Frequency Measurement		1 Hz to 1 MHz		1.1 ppm	Universal Counter (DAGATRON 8030U)
			(1 to 10) MHz		2 ppm	
			(10 to 100) MHz		3 ppm	
14	Oscilloscope	Square wave signal	50 Ω@1 kHz	0.5 mVpp to 20.0Vpp	0.25% rdg	Digital Oscilloscope (RIGOL DS1102CA)
			1MΩ @ 1 kHz	0.5 mVpp to	0.08% rdg	

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				120.0Vpp		
		The change in the amplitude of the sine wave compared to the frequency change	50Ω@50 kHz to 100 MHz	0.5 mVpp to 20.0Vpp	0.8% rdg	
			1 Hz to 100 MHz		1.5% rdg	
		Sine wave amplitude	1MΩ @ 10kHz to 50 kHz	0.1 mVpp to 120Vpp	0.25% rdg	
			50Ω @ 10kHz to 50 kHz	0.5 mVpp to 20Vpp	0.8% rdg	
		Rise Time	7ns to 50ms		6 nS	
		Time marking	8 ns to 1999.95 s		30 PPM	
15	DC Voltage Measurement		up to 100mV		0.0043% rdg+4.04 µV	Precision Multi meter (FLUKE 8846A)
			100mV to 1V		0.0029% rdg+8.1 µV	
			(1 to 10) V		0.0028% rdg+58 µV	

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No.	Quantity, Measuring Instrument, Material Measure	Range		**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
		(10 to 100) V		0.0044% rdg+0.7 mV	
		(100 to 1000) V		0.0047% rdg+11.6 mV	
16	AC Voltage Measurement	up to 100mV	(3 to 5) Hz	1.15% rdg+46.19 µV	Precision Multi meter (FLUKE 8846A)
			(5 to 10) Hz	0.4% rdg+46.19µV	
			Hz to ۱۰ 20kHz	0.07% rdg+46.19µV	
			(20 to 50) kHz	0.14% rdg+57.74µV	
			(50 to 100) kHz	0.69% rdg+92.38µV	
			(100 to 300) kHz	4.6% rdg+0.58mV	
		100mV to 1V	(3 to 5) Hz	1.15% rdg+0.35 mV	
			(5 to 10) Hz	0.4% rdg+0.35 mV	
			Hz to ۱۰ 20kHz	0.07% rdg+0.35 mV	
			(20 to 50) kHz	0.14% rdg+0.58 mV	
			(50 to 100) kHz	0.69% rdg+0.92 mV	

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			(100 to 300) kHz	4.62% rdg+5.77 mV	
		(1 to 10) V	(3 to 5) Hz	1.15% rdg+3.46 mV	
			(5 to 10) Hz	0.4% rdg+3.46 mV	
			Hz to ۱۰ 20kHz	0.07% rdg+3.46 mV	
			(20 to 50) kHz	0.14% rdg+5.77 mV	
			(50 to 100) kHz	0.69% rdg+9.24 mV	
			(100 to 300) kHz	4.62% rdg+57.74 mV	
		(10 to 100) V	(3 to 5) Hz	1.15% rdg+3.64 mV	
			(5 to 10) Hz	0.4% rdg+3.64 mV	
			Hz to ۱۰ 20kHz	0.07% rdg+3.64 mV	
			(20 to 50) kHz	0.14% rdg+57.74 mV	
			(50 to 100) kHz	0.69% rdg+92.38 mV	
			(100 to 300) kHz	4.62% rdg+0.58 mV	
		(100 to	(3 to 5) Hz	1.15% rdg+0.26 V	

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		1000) V	(5 to 10) Hz	0.4% rdg+0.26 V	
			Hz to ۱۰ 20kHz	0.07% rdg+0.26 V	
			(20 to 50) kHz	0.14% rdg+0.43 V	
			(50 to 100) kHz	0.69% rdg+0.69 V	
			(100 to 300) kHz	4.62% rdg+4.33 V	
17	AC High Voltage Measurement	(1 to 28) kV	at 50Hz	5.78 %rdg	Precision Multimeter (FLUKE 8846A) High Voltage Probe (SEW PD-28)
18	DC High Voltage Measurement	(1 to 20) kV		1.15% rdg	
		(20 to 40) kV		2.31% rdg	
19	Resistance measurement	up to 10Ω		0.012% rdg+3.46 mΩ	Precision Multi meter (FLUKE 8846A)
		(10 to 100) Ω		0.012% rdg+4.62 mΩ	
		100Ω to 1kΩ		0.012% rdg+11.56 mΩ	
		(1 to 10) kΩ		0.012% rdg+0.116 Ω	
		(10 to 100) kΩ		0.012% rdg+1.156 Ω	

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		100kΩ to 1MΩ		0.012% rdg+11.56 Ω	
		(1 to 10) MΩ		0.046% rdg+115.61 Ω	
		(10 to 100) MΩ		0.92% rdg+11.56 kΩ	
		100MΩ up to 1GΩ		2.31% rdg+115.47 kΩ	
20	DC Current measurement	up to 100µA		0.058% rdg+28.87 nA	Precision Multimeter (FLUKE 8846A)
		100µA to 1mA		0.058% rdg+57.74 nA	
		(1 to 10) mA		0.058% rdg+2.31 µA	
		(10 to 100) mA		0.058% rdg+5.77 µA	
		(100 to 400) mA		0.058% rdg+23.1 µA	
		400mA to 1A		0.058% rdg+0.23 mA	
		(1 to 3) A		0.12% rdg+0.69 mA	
		(3 to 10) A		0.17% rdg+0.92 mA	
21	AC Current measurement	up to 100µA	(3 to 5) Hz	1.27% rdg+69.3 nA	Precision Multimeter (FLUKE
			(5 to 10) Hz	0.4% rdg+69.3 nA	
			10 Hz to	0.17% rdg+69.3 nA	

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			5kHz		8846A)
			(5 to 10) kHz	0.4% rdg+0.8 µA	
		100µA to 1mA	(3 to 5) Hz	1.15% rdg+0.46 µA	
			(5 to 10) Hz	0.35% rdg+0.46 µA	
			10 Hz to 5kHz	0.12% rdg+0.46 µA	
			(5 to 10) kHz	0.23% rdg+2.89 µA	
		(1 to 10) mA	(3 to 5) Hz	1.27% rdg+6.93 µA	
			(5 to 10) Hz	0.4% rdg+6.93 µA	
			10 Hz to 5kHz	0.17% rdg+6.93 µA	
			(5 to 10) kHz	0.4% rdg+80.83 µA	
		(10 to 100) mA	(3 to 5) Hz	1.15% rdg+46.18 µA	
			(5 to 10) Hz	0.35% rdg+46.18 µA	
			10 Hz to 5kHz	0.12% rdg+46.18 µA	
			(5 to 10) kHz	0.23% rdg+0.29 mA	
		(100 to	(3 to 5) Hz	1.15% rdg+0.46 mA	

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		400) mA	(5 to 10) Hz	0.35% rdg+0.46 mA	
			10 Hz to 5kHz	0.12% rdg+0.46 mA	
			(5 to 10) kHz	0.23% rdg+3.23 mA	
		400mA to 1A	(3 to 5) Hz	1.15% rdg+0.46 mA	
			(5 to 10) Hz	0.35% rdg+0.46 mA	
			10 Hz to 5kHz	0.12% rdg+0.46 mA	
			(5 to 10) kHz	0.4% rdg+8.08 mA	
		(1 to 3) A	(3 to 5) Hz	1.27% rdg+2.08 mA	
			(5 to 10) Hz	0.4% rdg+2.08 mA	
			10 Hz to 5kHz	0.17% rdg+2.08 mA	
			(5 to 10) kHz	0.4% rdg+24.25 mA	
		(3 to 10) A	(3 to 5) Hz	1.2% rdg+6.93 mA	
			(5 to 10) Hz	0.4% rdg+6.93 mA	
			10 Hz to 5kHz	0.17% rdg+6.93 mA	
			(5 to 10) kHz	0.4% rdg+80.83 mA	

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22	AC Current measurement Clamp AV meter	up to 1000A	(45 to 65) Hz	1.73% rdg+5.77 A	Clamp Meter
23	DC Current measurement Clamp AV meter	up to 100A		1.73% rdg+5.77 A	Clamp Meter
24	Contact rpm measurement*	(6 to 1000) rpm		0.115% rdg+0.12 rpm	Universal Counter (DAGATRON 8030U)
		(1000 to 10000) rpm		0.115% rdg+1.2 rpm	
25	Non-contact rpm measurement*	up to 6000 rpm		0.115% rdg+0.12 rpm	
		(6000 to 90000) rpm		0.115% rdg+1.2 rpm	
26	Contact Tachometer	(6 to 5000) rpm		0.08% rdg	
27	Non-contact Tachometer	(6 to 60000) rpm		0.03 rpm	
		(60000 to 120000) rpm		0.04 rpm	
28	Timers, stopwatch	up to 24h		0.08"	Function/Arbitrary Waveform Generator (RIGOL DG3101A) Universal Counter (DAGATRON

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							8030U)
29	Sound Level meter			94 dB	1 KHz	0.14 dB	Sound Level Calibrator (TES 1356)
				114 dB		0.11 dB	
30	sound level measurement of the environment*			up to 200 dB		2 dB	Sound Level Meter (Lutron SL-4022)
31	Indirect resistance measurement			up to 31mΩ	10 A	0.15% rdg	Calibration System (Multi Calibrator FLUKE 9100) Precision Multimeter (FLUKE 8846A)
				(31 to 310) mΩ	1 A	0.08% rdg	
				(0.31 to 3.00) Ω	100 mA	0.03% rdg	
				(3 to 30) Ω	10 mA	0.32% rdg	
32	Direct insulation resistance measurement			100MΩ to 40GΩ		6.0% rdg	Precision Multimeter (FLUKE 8846A)
33	Temperature Displ	Thermocouple	Type J	(-210 to -100) °C		0.25 °C	Calibration System (Multi Calibrator
				(-100 to 800) °C		0.19 °C	
				(800 to +1000) °C		0.21 °C	
				(+1000 to +1200) °C		0.23 °C	

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	ay Simulations (source)		Type K	(-200 to -100) °C	0.57 °C	FLUKE 9100)
				(-100 to +100) °C	0.27 °C	
				(+100 to +600) °C	0.19 °C	
				(+600 to +1372) °C	0.27 °C	
			Type R	(0 to +100) °C	0.52 °C	
				(+100 to +200) °C	0.40 °C	
				(+200 to +1600) °C	0.35 °C	
				(+1600 to +1767) °C	0.28 °C	
			Type S	(0 to +200) °C	0.49 °C	
				(+200 to +1000) °C	0.37 °C	
				(+1000 to +1400) °C	0.35 °C	
				(+1400 to +1767) °C	0.36 °C	
			Type B	(+500 to 800) °C	0.55 °C	
				(800 to +1000) °C	0.41 °C	
				(+1000 to +1400) °C	0.34 °C	
				(+1400 to +1800) °C	0.37 °C	
			Type L	(-200 to -50) °C	0.26 °C	
				(-50 to +200) °C	0.18 °C	
				(+200 to +700) °C	0.20 °C	
				(+700 to +900) °C	0.23 °C	
			Type N	(-200 to -100) °C	0.33 °C	
				(-100 to +900) °C	0.23 °C	
				(+900 to +1100) °C	0.22 °C	
				(+1100 to +1300) °C	0.24 °C	

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			Type C	(0 to 600) °C	0.29 °C	
				(600 to 1000) °C	0.27 °C	
				(1000 to 1800) °C	0.40 °C	
				(1800 to 2320) °C	0.41 °C	
			Type E	(-250 to -200) °C	0.45 °C	
				(-200 to -100) °C	0.22 °C	
				(-100 to +100) °C	0.17 °C	
				(+100 to +1000) °C	0.21 °C	
			Type T	(-250 to -200) °C	0.59 °C	
				(-200 to -100) °C	0.27 °C	
				(-100 to 0) °C	0.22 °C	
				(0 to +400) °C	0.17 °C	
		RTD	(10 to 60) Ω	(-200 to -100) °C	0.225 °C	
				(-100 to 100) °C	0.15 °C	
				(100 to 630) °C	0.3 °C	
				(630 to 850) °C	0.45 °C	
			60Ω to1k Ω	(-200 to -100) °C	0.15 °C	
				(-100 to 100) °C	0.1 °C	
				(100 to 630) °C	0.2 °C	
				(630 to 850) °C	0.3 °C	
			1kΩ to 2kΩ	(-200 to -100) °C	0.12 °C	
				(-100 to 100) °C	0.08 °C	
				(100 to 630) °C	0.16 °C	
				(630 to 850) °C	0.24 °C	

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11- Chemical

No.	Quantity, Measuring Instrument, Material Measure		Range	**Capability Measurement and Calibration (±)	tandard method calibration sop / measurement standard / CRM
1	Capillary Viscometer tube		(7.8 to 1700) cSt	1% rdg	ASTM D445-04 :2017/S-60,S-600,Viscosity bath
2	Rotary Viscometer	Viscosity	(6 to 2000) cP	(1.2 to 4.3)% rdg	ASTM D2196-20 :2021/ S-60,S-600
		Temperature	(10 to 50) ºC	0. 4 °C	
		speed	(10 to 1000) rpm	0.115% rdg+0.12 rpm	
3	Ford Cup	Dimension	(2 to 8) mm	2 µm	ASTM D1200-10 :2018/ S-60,S-600
		Viscosity	(49 to 370) cSt	(0.63 to 0.97)% rdg	
		Volume	up to 100 mL	0.01 mL	
4	PH Meter	Voltage indicator	(-500 to 500) mV	0.05 mV	ASTM E 70-97 :1997 Standard Buffer Solutions
		Glass electrode	4	0.02 pH	
			7	0.02 pH	
			10	0.05 pH	
		Temperature	(10 to 50) °C	0.2 ºC	
5	Conductivity Meter	Electrode	(10 to 100) µS/cm	1.22% rdg	ASTM D1125 :2005/ conductivity solution 84 µS/cm,1413 µS/cm, 12880 µS/cm
			(100 to 2000) µS/cm	0.42% rdg	
			(2000 to 20000) µS/cm	0.45% rdg	
		Temperature	(10 to 50) °C	0.1 ºC	

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6	Turbidity meter	(1 to 4000) NTU	0.7% rdg	ASTM D1889-0 :2005/ Standard Solutions
7	Polarimeter (By Sucrose)	100 °Z, 546 nm	0.6% rdg	OIML R 14:1995/ D(+)-Sucrose
8	Hydrometer	(0.6 to 1.8) g/cm^3	0.0004 g/cm^3	ASTM E 126:2006/ Reference Hydrometers
9	Refractometer*	up to 75% Brix	0.6% rdg	OIML R 142:2008/ / D(+)-Sucrose
		1.333 to 1.466 nD	0.0005 nD	
10	COD meter	(5 to 50) mg/L	0.51% rdg	ASTM D 1252:2020/ CRM
		(50 to 750) mg/L	0.36% rdg	
11	DO meter	up to 20mg/L	0.02 mg/l	INSO 16336:1399/ Cobalt Standard Solution(SRM), Sodium Sulfite anhydrous
		up to 100%	0.1%	

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12	Gerber		up to 10%	0.02%	ISO 488:2008/balance, mercury
13	Titrator and Karl Fischer	volume	(25 to 100) mL	0.01 mL	ASTM E 70-97 :1997 ASTM D 6304:2016/ buffer :7,buffer :4,buffer :10, Water 0.1%,Watwe 1%
		PH	up to 14 pH	(0.02 to 0.05) pH	
		Voltage	(-2000 to 2000) mV	0.04 mV	

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		Absolute amount of water	1 mg/g	0.02 mg/L	
			10 mg/g	0.1 mg/L	
		Water percentage	0.1 %	0.002 %	

12- Gas Metering

No.	Quantity, Measuring Instrument, Material Measure		Range	**Capability Measurement and Calibration (±)	standard method calibration sop / measurement standard / CRM
1	Gas Detector	NO_X	1059 mg/kg	105.9 mg/kg	OIML R99:2008/ Standard gas Cylinder
		CH_4	990 mg/kg	49.5 mg/kg	
		CH_4	2.3 LEL%	0.05 LEL%	
		CO	2 Vol%	0.1 Vol%	
		CO_2	10 Vol%	0.5 Vol%	
		N_2	99.9 Vol%	5 Vol%	
		O_2	1.09 Vol%	0.05 Vol%	
		SH_2	155 mg/kg	15.5 mg/kg	
		SO_2	200 mg/kg	20 mg/kg	

*onsite Calibration Service is available
** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.

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