

Name: National Institute of Measurement and Testing Technology

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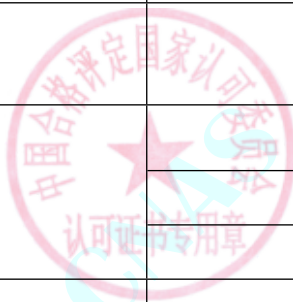
Registration No. CNAS L0893

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2025-04-07 Expiry Date: 2030-11-10

SCHEDULE 5 ACCREDITED CALIBRATION AND MEASUREMENT CAPABILITY SCOPE

Note: The instruments with * represents onsite calibration can be performed.

No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
I Geometry measuring instrument							
1	Micro/Nano-Pitch Standards	Length	Calibration Specification for Micro/Nano-Pitch Standards JJF (沪) 58	(0~3000) nm	$U=3.4\text{nm}$		
				(3000~10000) nm	$U=5.8\text{nm}$		
2	*Specific Surface Apparatus	Length	Calibration Specification for Specific Surface Apparatus JJF(浙)1198	(5~6000)nm	$U_{\text{rel}}=0.6\%$		
3	*Physisorption Analyzers	Specific surface area	Calibration Specification for Physisorption Analyzers JJF 2135	144.8 ² /g	$U=6.6\text{m}^2/\text{g}$		
		Pore volume		144.8m ² /g	$U=0.018\text{cm}^3/\text{g}$		
		Pore diameter		(4.38~7.19)nm	$U=0.56\text{nm}$		
4	*Thermomechanical Analyzers	Length	Calibration Specification for Thermomechanical Analyzers	(0~25)mm	$U=0.25\text{ }\mu\text{m}$		

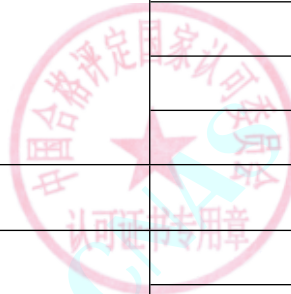
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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (<i>k</i> =2)	Note	Effective Date
		Temperature	JJF 2069	(20～600) °C	<i>U</i> =0.7℃		
		Expansion coefficient		(24.7～53.9)K ⁻¹	<i>U</i> _{rel} =2.4%		
5	*Laser confocal microscope	Length	Calibration specification for laser confocal microscope JJF 2160	(0.2～20) μ m	<i>U</i> _{rel} =1.2%		
		Angle		(20～80)°	<i>U</i> _{rel} =1.2%		
Mechanics measuring instrument							
II Mechanics measuring instrument							
1	Piezoelectrl Accelerometer	Acceleration	Verification Regulation of Piezoelectrl Accelerometer JJG 233	(1～300)m/s ² , 160Hz	<i>U</i> _{rel} =1.0%		
				(1～300)m/s ² , (10～2000)Hz	<i>U</i> _{rel} =2.0%		
				Shock:(200～14000)m/s ²	<i>U</i> _{rel} =5.0%		
2	Vibration Displacement Transducer	Displacement	Vibration Displacement Transducer JJG 644	Dynamic: (0.01～10)mm, (10～2000)Hz	<i>U</i> _{rel} =3.0%		
				Static: (0.01～300)mm	<i>U</i> _{rel} =0.1%		
3	Verification Regulation of Vibration meters	Frequency	Verification Regulation of Vibration meters JJG 676	(10～2000)Hz	<i>U</i> _{rel} =0.2%		
		Acceleration		(0.1～300) m/s ²	<i>U</i> _{rel} =2.0%		
		Velocity		(0.1～50)cm/s	<i>U</i> _{rel} =2.0%		
		Displacement		(0.01～10)mm	<i>U</i> _{rel} =2.0%		
4	Dynamie Force Sensors	Dynamie Force	V. R. of Dynamic Force Sensors JJG 632	200N～10kN	<i>U</i> _{rel} =5.0%		
5	Measuring Instrument for Cement Bright	Frequency	Verification Regulation of Measuring Instrument for Cement Bright Degumming	(20～100)Hz	<i>U</i> _{rel} =1.0%		
		Acceleration	(0.1～1000)m/s ²	<i>U</i> _{rel} =3.0%			

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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Degumming Equipment	Displacement	Equipment JJG 974	(10~1000) μ m	$U_{rel}=3.0\%$		
		Rotate Speed:		(60~1000)r/min	$U_{rel}=0.3\%$		
		Time		(1~120)s	$U=0.03s$		
6	*Verification Regulation of Mechanical Vibration Genetator for Testing	Frequency	Verification Regulation of Mechanical Vibration Genetator for Testing JJG 189	(5~5000)Hz	$U_{rel}=1.0\%$		
		Acceleration		(0.1~1000)m/s ²	$U_{rel}=5.0\%$		
		Displacement		(10~1000) μ m	$U_{rel}=5.0\%$		
7	*Hydraulic Vibration Testing System	Frequency	Hydraulic Vibration Testing System JJG 638	(0.1~5000)Hz	$U_{rel}=1.0\%$		
		Acceleration		(0.1~1000)m/s ²	$U_{rel}=5.0\%$		
		Displacement		(10~1000) μ m	$U_{rel}=5.0\%$		
8	Measuring Instrument for Shock	Acceleration	Calibration Specification for Shock Measuring Instruments JJF 1943	(200~14000)m/s ²	$U_{rel}=5.0\%$		
		Time		(1~100) ms	$U_{rel}=3.0\%$		
9	*Electrodynamic Vibration Testing Systems	Frequency	Verification Regulation of Electrodynamic Vibration Testing Systems JJG 948	(5~5000)Hz	$U_{rel}=1.0\%$		
		Acceleration		(0.1~1000)m/s ²	$U_{rel}=5.0\%$		
		Displacement		(10~1000) μ m	$U_{rel}=5.0\%$		
10	*Standard Vibrators	Frequency	Verification Regulation of Standard Vibrators JJG 298	(0.1~5000)Hz	$U_{rel}=1.0\%$		
		Acceleration		(0.1~1000)m/s ²	$U_{rel}=3.0\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
		Displacement		$(10 \sim 1000) \mu\text{m}$	$U_{\text{rel}}=3.0\%$		
11	*Calibration Set of Shock Acceleration by Impact Force	Acceleration	Verification Regulation of Calibration Set of Shock Acceleration by Impact Force JJG 791	$(0.5 \sim 1000)\text{m/s}^2$	$U_{\text{rel}}=3.0\%$		
12	Dynamic Balance Measuring Instruments	Acceleration	Calibration Specification for Dynamic Balance Measuring Instruments JJF 1570	$(0.1 \sim 100)\text{m/s}^2$, $(1\text{Hz} \sim 400\text{Hz})$	$U_{\text{rel}}=3.0\%$		
		Phase		$0^\circ \sim 360^\circ$, $(1\text{Hz} \sim 400\text{Hz})$	$U=3.0^\circ$		
		revolution speed		$(30 \sim 30000)\text{r/min}$	$U_{\text{rel}}=0.02\%$		
13	Charge Amplifiers	Charge	Charge Amplifiers JJG 338	$(0.1 \sim 10^4)\text{pC}$	$U_{\text{rel}}=0.05\%$		
14	Resistance Strain Gauge Indicators	Frequency	Resistance Strain Gauge Indicators JJG 623	$10\text{Hz} \sim 500\text{kHz}$	$U=0.5\text{dB}$		
		Strain		$(0.1 \sim 10^5) \mu\text{e}$	$U_{\text{rel}}=0.1\%$		
15	IEPE Amplifiers	Voltage	Calibration Specification for IEPE Amplifiers JJF 1269	$(0.01 \sim 10)\text{V}$	$U_{\text{rel}}=0.05\%$		
16	Dynamical Signal Analyzer	Frequency	Dynamical Signal Analyzer JJG 834	$(1 \sim 200\text{k})\text{Hz}$	$U_{\text{rel}}=1 \times 10^{-4}$		
		Voltage		$(0.02 \sim 10)\text{V}$	$U_{\text{rel}}=0.2\%$		
17	*Bump Testing Machines	Acceleration	Shock and Bump Testing Machines JJG 1174	$(0.5 \sim 1000)\text{m/s}^2$	$U_{\text{rel}}=5.0\%$		
		Time		$(1 \sim 100)\text{ms}$	$U_{\text{rel}}=3.0\%$		
18	Pile Dynamic Measuring Instruments	Acceleration	V. R. of Pile Dynamic Measuring Instruments JJG 930	$(0.1 \sim 300)\text{m/s}^2$	$U_{\text{rel}}=3.0\%$		
		Velocity		$(0.1 \sim 50)\text{cm/s}$	$U_{\text{rel}}=3.0\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (<i>k</i> =2)	Note	Effective Date
		Dynamic strain		(10~1000)μ ε	<i>U</i> _{rel} =5.0%		
		Frequency		(10~2000)Hz	<i>U</i> _{rel} =1.0%		
19	Calibration Instrument for Torque Wrenches	Torque	V. R. of Calibration Instrument for Torque Wrenches JJG 797	(0.1~1)Nm (1~3000)Nm	<i>U</i> _{rel} =0.12% <i>U</i> _{rel} =0.1%		
20	Torque Wrenches	Torque	V. R. of Torque Wrenches JJG 707	(0.4~3000)Nm	<i>U</i> _{rel} =0.3%		
21	*Electric and Pneumatic Torque Wrenches	Torque	C. S. for Electric and Pneumatic Torque Wrenches JJF 1610	(2~2500)Nm	<i>U</i> _{rel} =0.3%		
22	*Torsion Testing Machines	Torque	V. R. of Torsion Testing Machines JJG 269	(2~10000)Nm	<i>U</i> _{rel} =0.05%		
23	Static Torque Measuring Devices	Torque	V. R. of Static Torque Measuring Devices JJG 995	(0.1~50)Nm	<i>U</i> _{rel} =0.12%		
				(50~5000)Nm	<i>U</i> _{rel} =0.06%		
24	Tacho-Torque Measuring Device	Torque	V. R. of Tacho-Torque Measuring Device JJG 924	(0.1~50)Nm	<i>U</i> _{rel} =0.12%		
		Rotating velocity		(50~5000)Nm	<i>U</i> _{rel} =0.06%		
				(50~10000)r/min	<i>U</i> _{rel} =0.12%		
25	High Strength Bolt Testers	torque	Calibration Specification for High Strength Bolt Testers JJF 1478	(50~2000) Nm	<i>U</i> _{rel} =0.2%		
		Force Value		(10~500) kN	<i>U</i> _{rel} =0.2%		
26	Electromagnetic Velocity Transducer	Velocity	Verification Regulation of Electromagnetic Velocity Transducer JJG 134	(1~200)mm/s, (10~2000)Hz	<i>U</i> _{rel} =3.0%	Accredited only for comparative method	



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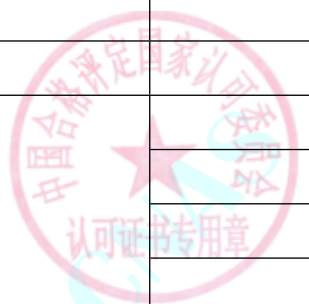
№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (<i>k</i> =2)	Note	Effective Date
27	Elevator Overspeed Governor	Speed	Calibration Specification for Elevator Overspeed Governor Testers JJF 1374	(1~10.0) m/s	<i>U</i> _{rel} =0.4%		
28	*Speed and mileage meter for motor vehicles	mileage	Verification Regulation of Speed and mileage meter for non-disintegrated cars JJG 750	(1~10)km	<i>U</i> _{rel} =1.0%		
		speed		(30~120)km/h	<i>U</i> _{rel} =3.2%		
29	Test Equipment for Vehicle Speed Radar Measurement Meters	Frequency	Verification Regulation of Test Equipment for Vehicle Speed Radar Measurement Meters JJG 771	(390~13009) Hz	<i>U</i> =0.6Hz		
		Velocity		(20~200) km/h	<i>U</i> =0.01km/h		
30	*Mobile Radar Vehicle Speed Measurement Device	Simulation speed	Verification Regulation of Mobile Radar Vehicle Speed Measurement Device JJG 528	(0~180) km/h	<i>U</i> =0.7km/h		
		Field speed		(20~100) km/h	<i>U</i> =1.5km/h		
				(100~180) km/h	<i>U</i> _{rel} =1.5%		
				Frequency	(8~40)GHz		
31	*Verification Devices for Taximeters	rotational speed	Verification Regulation of Verification Devices for Taximeters JJG 738	(50~1500)r/min	<i>U</i> _{rel} =0.03%		
		rotational number		(1000~50000)r	<i>U</i> _{rel} =0.03%		
		speed		(40~60)km/h	<i>U</i> =0.2km/h		
		Length		(315~320)mm	<i>U</i> _{rel} =0.1%		
32	*Point-to-point Vehicle Speed Monitor Systems for Road Traffic	Mileage	Calibration Specification for Point-to-point Vehicle Speed Monitor Systems for Road Traffic JJF(Chuan) 109	(0.5~20)km	<i>U</i> _{rel} =0.8%		
		Time Interval		(10~3000) s	<i>U</i> _{rel} =0.3%		
33	*Chassis	Diameter	Calibration Specification for Chassis Dynamometers for	(200~500)mm	<i>U</i> =0.1mm		

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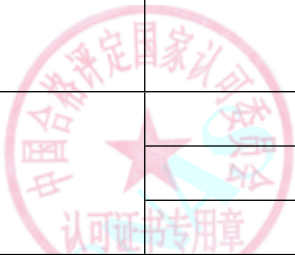
No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Automobile Emissions	Force	Automobile Emissions Testing JJF 1221	(0.5~8)kN	U _{rel} =0.8%		
		speed		(5~100)km/h	U _{rel} =0.12%		
		dynamometer inertia weight		(100~2000)kg	U _{rel} =1.0%		
		time		(1~150)s	U _{rel} =0.4%		
34	*Fixed Radar Vehicle Speed Measurement Device	Simulation speed	Verification Regulation of Fixed Radar Vehicle Speed Measurement Device JJG 527	(0~180) km/h	U=0.7km/h		
		Field speed		(20~100) km/h	U=1.5km/h		
				(100~180) km/h	U _{rel} =1.5%		
				Frequency	(8~40)GHz		
III Flow measuring instrument							
1	Hot meters	flow	Verification Regulation of Hot water meters JJG 686	DN15~DN50,(0.004~50)m³/h DN(15~50)mm	U _{rel} =0.62%		
2	Heat Water Meters	flow	Verification Regulation of Heat Meters JJG 225	(0.004~50)m³/h, DN(15~50)	U _{rel} =0.7%		
3	Cold Potable Water Meters	flow	V.R.of Cold Potable Water Meters JJG 162	DN15~DN50,(0.004~50)m³/h	U _{rel} =0.58%		
4	Float Meter	flow	V.R.of Float Meter JJG 257	(0.004~50)m³/h(liquid)	U _{rel} =0.3%		
5	*Syringe Pump and Infusion Pump	flow	Calibration Specification for Syringe Pumps and Infusion Pumps JJF 1259	(5~20)mL/h	U=0.84 mL/h		
				(20~200)mL/h	U=2.7 mL/h		
				(200~1000)mL/h	U=12 mL/h		
		occlusion pressure		(40~106.7) kPa	U= 4.9 kPa		



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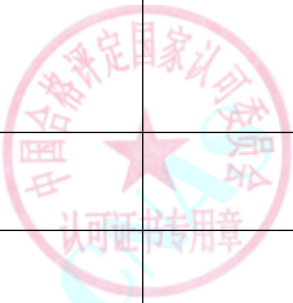
No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
IV Capacity measuring instrument							
1	*Standard Metal Tank	capacity	Verification Regulation of Standard Metal Tank JJG 259	(10~2500)L	$U_{rel}=0.86\times 10^{-4}$		
V Electromagnetism measuring instrument							
1	Impulse Voltage Dividers	Voltage ratio	Calibration Specification for Impulse Measuring Systems-Impulse Voltage-Part1: Impulse Voltage Dividers JJF 2028	1kV~200kV	$U_{rel}=1.0\%$		
		Time		0.8 μ s~4000 μ s	$U_{rel}=3.0\%$		
2	Impulse Current Measurement Instruments	Current	Calibration Specification for Lightning Impulse Current Measurement Instruments NIMTT(CM) 180	(1~100)kA	$U_{rel}=1.5\%$		
		Time		3 μ s~400 μ s	$U_{rel}=3.0\%$		
V Special measuring instrument							
1	*Loading Method Automobile Brake Testers	Lifting Height	Verification Regulation of Loading Method Automobile Brake Testers JJG 1160	(0~500) mm	$U=0.5\text{mm}$		
		Braking force		(1~50)kN	$U_{rel}=1.0\%$		
		Mass		20kg~15t	$U_{rel}=0.7\%$		
2	*Vehicle Contour Dimensions Testers	Length	Calibration Specification of Vehicle Contour Dimensions Testers JJF 1749	(1~16)m	$U_{rel}=0.4\%$		
3	Detecting device of vehicle travelling data recorder	Speed	Calibration Specification for Detecting device of vehicle travelling data recorder JJF 2126	(20~145) km/h	$U=0.07\text{m/s}$		
		Mileage		5km	$U_{rel}=0.6\%$		
		Time interval		24h	$U=0.7\text{s}$		
4	*Slip plate type automobile side slip tester	indication error of side slip	Verification Regulation of Slip plate type automobile side slip tester JJG 908	(-10~10)m/km	$U=0.07\text{m/km}$		

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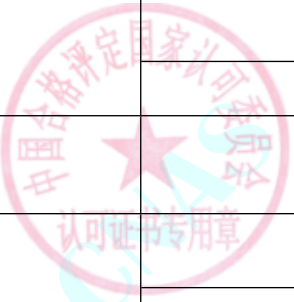
№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
5	*Vehicle exhaust emission measuring instruments	Exhaust emission concentration	Verification Regulation of vehicle exhaust emission measuring instruments JJG 688	CO:(0.4~5)×10 ⁻² mol/mol	U _{rel} =1.4%		
				HC: (80~2000)×10 ⁻⁶ mol/mol	U _{rel} =1.4%		
				CO ₂ : (2.5~16)×10 ⁻² mol/mol	U _{rel} =1.2%		
				NO: (230~4000)×10 ⁻⁶ mol/mol	U _{rel} =1.3%		
				O ₂ : (0.3~21)×10 ⁻² mol/mol	U _{rel} =1.5%		
6	*Turning Angle Testers for Automobile	angle	Calibration Specification for Turning Angle Testers for Automobile JJF 1141	-50°~50°	U=0.32°		
7	Non-contact Automotive Speedmeter	Speed	Calibration Specification for Non-contact Automotive Speedmeter JJF 1193	(10~50)km/h	U=0.30 km/h		
		Distance		(50~180) km/h	U _{rel} =0.30%		
				(1.0~30)m	U=0.10m		
				(30~999.9) m	U _{rel} =0.32%		
8	Calibration Specification for Transmittance Meter of Automobile	transmittance	Calibration Specification for Transmittance Meter of Automobile JJF1225	0%~100%	U=0.4%		
9	Manipulating force tester for automotive brake	Force value	Calibration Specification for Manipulating force tester for automotive brake JJF 1169	(100~1000)N	U _{rel} =1.2%		
10	*Tester for wheel deviation of motorcycles	indication error of wheel deviation	Verification Regulation of Slip plate type automobile side slip tester JJG 910	(1~12) mm	U=0.07mm		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
11	*Tester for wheel deviation of motorcycle	Mass	Verification Regulation of Tester for wheel deviation of motorcycles JJG 1014	5kg~15t	$U_{rel}=0.7\%$		
12	*Head lamp tester for motor vehicle	luminous intensity	Verification Regulation of Headlamp tester for motor vehicle JJG 745	(5~60)kcd	$U_{rel}=6.4\%$		
		offset of ray axes		up:1°~down:2°, Left:2°~right:2°	$U=6'$		
		Height		(0.3~1.5)m	$U=3mm$		
13	Calibrators for headlamp tester of motor vehicle	luminous intensity	Verification Regulation of Calibrators for headlamp tester of motor vehicle JJG 967	(5~60)kcd	$U_{rel}=1.5\%$		
		light axis		up:2°~down:2°, Left:2°~right:2°	$U=2'$		
14	Motor Vehicle Testers for Steering Force and Steering Angle	Steering force	Calibration Specification for Motor Vehicle Testers for Steering Force and Steering Angle JJF 1196	(100~500)N	$U_{rel}=0.6\%$		
		Steering angle		0° ~1080°	$U=1.0^\circ$		
15	*Motor Vehicle Engine speed Measuring Instrument	Rotate speed	Calibration Specification for Motor Vehicle Engine Speed Measuring Instruments JJF 1375	(500~6000)r/min	$U_{rel}=0.32\%$		
16	*Roller type speedometer tester	indication error of speed	Verification Regulation of Roller type speedometer tester JJG 909	(10~80) km/h	$U_{rel}=0.7\%$		
		Diameter		(100~500) mm	$U=0.1mm$		
17	*Roller opposite forces type brake tester	Brake force	Verification Regulation of Roller opposite forces type brake tester JJG 906	(1~45)kN	$U_{rel}=1.0\%$		
18	*Four-wheel Aligner	angle	Calibration Specification for Four-wheel Aligners JJF 1154	individual wheel toe-in: 2° ~2°	$U=1.2'$		
				camber: -10° ~10°	$U=2.8'$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
19	*Opacimeter	opacity	Verification Regulation of Opacimeters JJG 976	caster: $-15^{\circ} \sim 15^{\circ}$	$U=3.6'$		
		Temperature		kingpin inclination: $-5^{\circ} \sim 25^{\circ}$	$U=3.6'$		
		Revolution speed		$0\% \sim 99.0\%$ $(50 \sim 80)^{\circ}\text{C}$ $(1500 \sim 3000)\text{r/min}$	$U=0.7\%$ $U=0.5^{\circ}\text{C}$ $U=12\text{r/min}$		
20	portable braking performance tester for vehicles	deceleration	Calibration Specification for portable braking performance tester for vehicles JJF 1168	static: $(0 \sim 5) \text{ m/s}^2$	$U=0.04\text{m/s}^2$	Accredited only for automotive speedmeter method of dynamic calibration	
				static: $(5 \sim 9.8) \text{ m/s}^2$	$U_{\text{rel}}=0.82\%$		
				dynamic: $(1 \sim 9.8) \text{ m/s}^2$	$U_{\text{rel}}=1.6\%$		
21	*Platform Brake Tester	Brake force	Verification Regulation of Platform Brake Tester JJG 1020	$(1 \sim 30)\text{kN}$	$U_{\text{rel}}=0.9\%$		
		Mass		$20\text{kg} \sim 15\text{t}$	$U_{\text{rel}}=0.7\%$		
22	*Flow Analyzer for Short Transient Loaded Mode of Gasoline Vehicle	Flow	Calibration Specification for Flow Analyzer for Short Transient Loaded Mode of Gasoline Vehicles JJF 1385	$(95 \sim 180)\text{L/s}$	$U_{\text{rel}}=2.0\%$		
		concentration		$5.0\% \sim 20.9\%$	$U_{\text{rel}}=1.6\%$		
23	Rebound Test Hammer	Rate value	V. R. of Rebound Test Hammer JJG 817	74、80、83、88	$U_{\text{rel}}=3.0\%$		
		Length		$(19 \sim 141)\text{mm}$	$U=0.05\text{mm}$		
		Force		$(0.5 \sim 0.65)\text{N}$	$U=0.04\text{N}$		
		Rigidity		$(65 \sim 1150)\text{N/m}$	$U_{\text{rel}}=0.4\%$		



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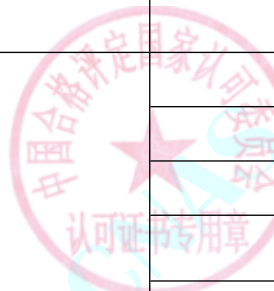
№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
24	Dynamic Elastic Modulus Measurement Instruments	Frequency	C. S. for Dynamic Elastic Modulus Measurement Instruments JJF 1373	(5~5000)Hz	$U_{\text{rel}}=1.0\%$		
25	*cardiac defibrillators	tidal volume	Calibration Specification for Cardiac Defibrillators JJF1149	(0~100)J	$U=3.6\text{ J}$		
				(100~360)J	$U=5.7\text{ J}$		
		heart rate		(30~300)min ⁻¹	$U=1.4\text{ min}^{-1}$		
26	*lung ventilators	tidal volume	Calibration Specification for Lung Ventilators JJF1234	(10~1000)mL	$U=(0.023V+1.7)\text{ mL}(V:\text{mL})$		
		frequency		(1~150)min ⁻¹	$U=(0.0024f+0.14)\text{ min}^{-1}(f:\text{min}^{-1})$		
		Pressure		(0.1~12)kPa	$U=(0.0035P+0.014)\text{ kPa}(P:\text{kPa})$		
27	hemodialysis equipment	conductivity	Calibration Specification for Hemodialysis Equipment JJF1353	(13.5~14.5)mS/cm	$U_{\text{rel}}=1.2\%$		
		temperature		(35~40)°C	$U_{\text{rel}}=0.6\%$		
		pH		pH: 6~8	$U_{\text{rel}}=0.78\%$		
		Flow		(450~550)mL/min	$U_{\text{rel}}=1.5\%$		
28	*Baby IncuBator	temperature	Calibration Specification for Baby Incubator JJF1260	(25~40)°C	$U=0.14^{\circ}\text{C}$		
		relative humidity		25%RH~85%RH	$U=3.6\%\text{RH}$		
29	*Electrosurgical Generator	output power	Calibration Specification for Electrosurgical Generator JJF1217	(1~50)W	$U=3W$		
				(50~400)W	$U_{\text{rel}}=6.5\%$		
		leakage current		(30~300)mA	$U_{\text{rel}}=3.0\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (<i>k</i> =2)	Note	Effective Date
30	*Electroencephalograph	Volt	Verification Regulation of Electroencephalograph JJG1043	30 μ V~30 V	<i>U</i> =15 μ V		
31	*Electrocardiogram machine	Volt	Electrocardiograph JJG543	30 μ V~30 V	<i>U</i> =15 μ V		
32	*Insufflator	Gas pressure setting value	Calibration Specification for Insufflators JJF 1892	Setting value:(0~6000)Pa	<i>U</i> =70 Pa		
				Indication value:(0~6000)Pa	<i>U</i> =0.1 kPa		
		Flow		Setting value:(0~10)L/min	<i>U</i> =0.59 L/min		
				Indication value:(0~10)L/min	<i>U</i> =0.82 L/min		
				Setting value:(10~100)L/min	<i>U</i> _{rel} =5.8%		
				Indication value:(10~100)L/min	<i>U</i> _{rel} =6.2%		
VII Chemical measuring instruments							
1	Aerosol Photometers	Air Flow	Calibration Specification for Aerosol Photometers JJF1800	(0.1~50) L/min	<i>U</i> _{rel} =1.4%		
		Mass Concent		(0.01~100) μ g/L	<i>U</i> _{rel} =12%		
2	PM _{2.5} Mass Concentration measurement Instruments	Air Flow	C. S. for PM _{2.5} Mass Concentration Measurement Instruments JJF 1659	(0.1~60) L/min	<i>U</i> _{rel} =1.4%		
		Time		(0~3600)s	<i>U</i> =1 s		
		Temperature		(0~100) °C	<i>U</i> =0.1 °C		
		Atmospheric pressure		(80~106) kPa	<i>U</i> =1.4 hPa		
		Mass Concent		(10~1000) μ g/m ³ <sup>sup	<i>U</i> _{rel} =10%		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
3	Dust Concentration Measuring Instruments	dust concentration	V. R. of Dust Concentration Measuring Instruments JJG 846	(0.1~50)mg/m ³	U _{rel} =7.4%		

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