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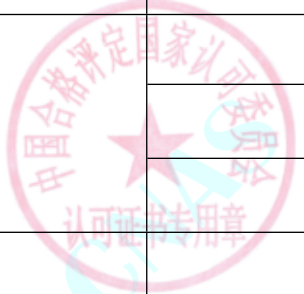
Registration No. CNAS L0260

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

Effective Date: 2023-06-19 Expiry Date: 2028-09-16

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、Mechanical measuring instrument							
1	Vibration Displacement Transducer	Displacement	Verification Regulation of Vibration Displacement Transducer JJG 644	Static:(0~25)mm	$U_{rel}=0.3\%$		
				Dynamic:(0.01~5)mm, (0.4~500)Hz	$U_{rel}=1.5\%$		
2	Linear Accelerometer	Linear acceleration	Calibration Specification for MEMS Linear Accelerometers JJF1427	(>9.8~450)m/s ² , (32~330)r/min	$U_{rel}=5 \times 10^{-4}$		
				(-9.8~-1.7×10 ⁻⁴)m/s ² , (-55~85)°C	$U_{rel}=2 \times 10^{-5}$		
				(1.7×10 ⁻⁴ ~9.8)m/s ² , (-55~85)°C	$U_{rel}=2 \times 10^{-5}$		
3	Vibratory Transmitter	Acceleration	Calibration Specification for Vibratory Transmitter JJF(Su)235	(0.1~100)m/s ² , (0.4~4000)Hz	$U_{rel}=1.5\%$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Velocity		(0.1~100)mm/s, (0.4~1000)Hz	$U_{rel}=1.5\%$		
		Displacement		(0.01~5)mm, (0.4~500)Hz	$U_{rel}=1.5\%$		
4	Electromagnetic Sensor of Rotational Speed	Rotational Speed	C. S. for Electromagnetic Sensor of Rotational Speed JJF1871	(10~100)r/min	$U=0.03r/min$		
				(>100~8000)r/min	$U_{rel}=0.01\%$		
5	Speed and Milege Meter for Standard Equipment	Rotate Speed	V.R.of Speed and Milege Meter for Standard Equipment JJG779	(10~4000)r/min	$U_{rel}=0.6 \times 10^{-4}$		
6	Tachometer	Rotate Speed	V.R.of Tachometers JJG105	(10~40000)r/min	$U_{rel}=0.02\%$		
7	Aneroid Barograph and Aneroid Barometer	Pressure	V.R.of Aneroid Barograph and Aneroid Barometer JJG272	(500~1050)hPa	$U=0.4hPa$		
8	Equipment Standard for Revolution Speed	Rotate Speed	V.R.of Standard Equipment for Revolution Speed JJG326	(10~40000)r/min	$U_{rel}=0.9 \times 10^{-4}(k=3)$		
9	Digital Barometers	Pressure	V.R.of Digital Barometers JJG1084	(10~1200)hPa	$U=(0.2~0.4)hPa$		
10	Accelerometer	Acceleration	V.R.of Piezoelectric Accelerometer JJG233	(0.1~100)m/s ² , (0.4~20)Hz	$U_{rel}=1.4\%$		
				(0.1~1000)m/s ² , (>20~4000)Hz	$U_{rel}=1.5\%$		
11	Measuring Vibration Instruments	Acceleration	V.R.of Vibration Meters JJG676	(0.1~100)m/s ² , (5~2000)Hz	$U_{rel}=2.3\%$		
		Velocity		(0.1~100)mm/s, (5~1000)Hz	$U_{rel}=2.3\%$		
		Displacement		(0.01~5)mm, (5~500)Hz	$U_{rel}=2.3\%$		



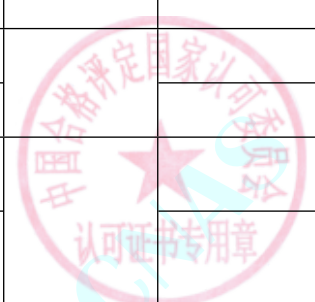
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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
12	Portable Vibration Calibrator	Acceleration	V.R.of Portable Vibration Calibrator JJG1062	(0.1~1000)m/s ²	U _{rel} =1.2%		
		Frequency		(5~4000)Hz	U _{rel} =0.06%		
13	Photoelectric Belt Tension Meters	Frequency	Calibration Specification for Photoelectric Belt Tension Meters JJF(S) 204	(10~50)Hz	U=0.1Hz		
				(>50~600) Hz	U=0.2Hz		
II、Acoustic measuring instrument							
1	Personal Sound Exposure Meter	sound exposure	Personal Sound Exposure Meters JJG 980	Absolute acoustic sensitivity:10Pa ² h	U=0.9Pa ² h		
				Weighted, Steady State Response:(0.1~99.99)Pa ² h, (63~8000)Hz	U _{rel} =6%		
				Short duration signal response:(0.1~99.99)Pa ² h, (63~8000)Hz	U=0.12Pa ² h		
2	Microphone Preamplifier	Frequency Response	Calibration Specification for Microphone Preamplifiers JJF1137	(-10~10)dB, (10 Hz~20 kHz)	U=0.5dB		
3	Dynamical Signal Analyzer	Frequency	V.R. of Dynamical Signal Analyzer JJG834	0.1Hz~200kHz	U _{rel} =6×10 ⁻⁵		
		Voltage		1mV~10V	U _{rel} =0.6%		
4	*Pure tone audiometer	Hearing level zero	V.R.of Pure tone audiometer JJG388	Air conduction : (-10~120) dB, 125Hz~8kHz	U=0.9dB		
				Bone conduction : (-10~70) dB, 125Hz~8kHz	U=1.7dB		

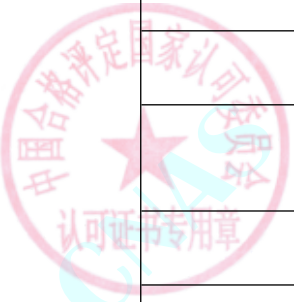


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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
5	Sound level meter	Sound Pressure Level	V.R.of Sound Level Meters JJG188	Sound Signal:(30~130)dB, (10Hz~4kHz)	U=0.6dB		
				Sound Signal:(30~130)dB, (>4~10)kHz)	U=0.7dB		
				Sound Signal:(30~130)dB, (>10~20)kHz)	U=1.0dB		
				Sine Signal:(30~130)dB, (31.5Hz~12.5kHz)	U=0.2dB		
				Toneburst Signal:(30~130)dB, (0.25~1000)ms	U=0.3dB		
				F:(20.0~50.0)dB/s	U=3.2dB/s		
		S:(1.0~8.0)dB/s		U=0.3dB/s			
	Time-Weighting F and S						
6	Noise Level Statistical Analyzers	Sound Pressure Level	V.R.of Noise Level Statistical Analyzers JJG778	Sound Signal:(30~130)dB, (10Hz~4kHz)	U=0.6dB		
				Sound Signal:(30~130)dB,(>4kHz~10kHz)	U=0.7dB		
				Sound Signal: (0~130)dB, (>10~20)kHz)	U=1.0dB		
				Sine Signal: (30~130)dB, (31.5Hz~12.5kHz)	U=0.2dB		
				Toneburst Signal:(30~130)dB, (0.25~1000)ms	U=0.3dB		
				F:(20.0~50.0)dB/s	U=3.2dB/s		
				Time-Weighting F			

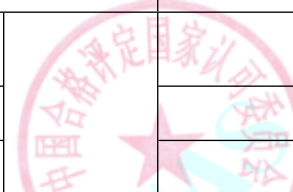


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		and S		S:(1.0~8.0)dB/s	U=0.3dB/s		
7	Acoustic calibrator	SPL	V.R.of Acoustic calibrator JJG176	(80~130)dB,(20~ 8000)Hz	U=0.12 dB		
		Frequency		(20~8000)Hz	$U_{rel}=0.2\%$		
		Total Distortion		(0.03~10.0)%	U=0.40%		
III、Electromagnetic measuring instrument							
1	Fluxgate Magnetometer	Magnetic Induction	Calibration Specification for Fluxgate Magnetometer JJF1519	(-100 μ T~100 μ T)	$U=0.3\%R_d+10nT$		
		Orthogonality		0~10°	$U=0.15^\circ$		
Special measuring instruments							
IV、Special measuring instruments for construction and traffic							
1	Pile Dynamic Measuring Instrument	Acceleration	V.R.of Pile Dynamic Measuring InstrumentJJG930-1998 JJG930	(0.5~1000)m/s ²	$U_{rel}=1.4\%$		
V、Other measuring instruments							
1	MEMS Gyroscopes	Angular speed	Calibration Specification for MEMS Gyroscopes JJF 1535	(0.01~500)° /s, (-55~ 85)°C	$U_{rel}=1.1 \times 10^{-3}$		
				(>500~1500)° /s	$U_{rel}=1.1 \times 10^{-3}$		
		Scale Factor		(1~1×10 ⁶)mV/(° /s)	$U_{rel}=1.4 \times 10^{-3}$		



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