Name: Wuxi Institute of Inspection, Testing and Certification(Wuxi Institute of Metrology and Testing/Wuxi Center of Fiber Inspection)

Address: No.200, Linghu Avenue, Xinwu District, Wuxi, Jiangsu, China

Registration No. CNAS L0260

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

Effective Date: 2024-12-10 Expiry Date: 2028-09-16

SCHEDULE 5 ACCREDITED CALIBRATION AND MEASUREMENT CAPABILITY SCOPE

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

№	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:(0.01～25)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	$U_{rel}=5\times10^{-4}$		
				(-9.8～-1.7×10^{-4})m/s^2，(-55～85)℃	$U_{rel}=2\times10^{-5}$		
				(1.7×10^{-4}～9.8)m/s^2，(-55～85)℃	$U_{rel}=2\times10^{-5}$		
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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The scope of the accreditation in Chinese remains the definitive version.

№	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}=0.6×10^{-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}=0.9×10^{-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}=1.1%		
				(0.1～1000)m/s^2，(20～10000)Hz	U_{rel}=1.1%		
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%		

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Frequency		(5～2000)Hz	U_{rel}=0.2%		
12	Portable Vibration Calibrator	Acceleration	V.R.of Portable Vibration Calibrator JJG 1062	(0.1～1000)m/s^2，（5～4000）Hz	U_{rel}=1.2%		
		Frequency		(5～4000)Hz	U_{rel}=0.06%		
		Distortion		0.01%～30%	U_{rel}=2%		
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		
14	Electromagnetic Velocity Transducers	Velocity	Electromagnetic Velocity Transducers JJG 134	(0.1～100)mm/s，(5～4000)Hz	U_{rel}=1.1%		
15	Capacitance Accelerometers	Acceleration	Calibration Specification for Capacitance Accelerometers JJF 1918	Static：（0～9.8）m/s^2，（0～180）°	U=0.005m/s^2		
				Dynamic:(0.1～100)m/s^2，(0.4～20)Hz	U_{rel}=1.1%		
				Dynamic:(0.1～1000)m/s^2，(20～10000)Hz	U_{rel}=1.1%		
16	Linear Velocity Measuring Instrument	Linear Velocity	Calibration Specification for Linear Velocity Measuring Instrument JJF 1801	contact：（0.1～4）m/s	U_{rel}=0.6%		
				two points：（0.3～30）m/s	U_{rel}=0.3%		
17	Human Vibration Meters	Weighted acceleration	Verification Regulation of Human Vibration Meters JJG 1178	Frequency：(0.4～1000)Hz；Acceleration：（0.01～100）m/s^2	U_{rel}=1.1%		
18		Acceleration	Calibration Specification for Shock Measuring Instruments JJF 1943	Acceleration：(200～50000)m/s^2；Pulse Duration:(0.05～10)ms	U_{rel}=4.3%		

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
19		overload Acceleration	Calibration Specification for Acceleration Overload Sensors JJF 2038	Acceleration：(8～490)m/s^2，（20~2000）Hz	U_{rel}=0.4%		
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～50 kHz)	U=0.3dB		
		Transmission loss		(-10～10)dB，(10 Hz～50 kHz)	U=0.2dB		
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 Audiological Equipment Pure-tone Audiometers JJG388	Air conduction : (-10～120) dB，125Hz～8kHz	U=0.9dB		
				Bone conduction : (-10～70) dB，125Hz～8kHz	U=1.7dB		
5	Sound level meter	Sound Pressure Level	V.R.of Sound Level Meters JJG188	Sound Signal:(30～130)dB，(10Hz～4kHz)	U=0.6dB		

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				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		
		Time-Weighting F and S		F:(20.0～50.0)dB/s	U=3.2dB/s		
				S:(1.0～8.0)dB/s	U=0.3dB/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		
		Time-Weighting F and S		F:(20.0～50.0)dB/s	U=3.2dB/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		

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Frequency		(20～8000)Hz	U_{rel}=0.2%		
		Total Distortion		(0.03～10.0)%	U=0.40%		
8	Working Standard Microphones(Electrostatic Actuator Method)	sound pressure sensitivity level	V.R.of Working Standard Microphones(Electrostatic Actuator Method) JJG 175	Frequency response of sound pressure sensitivity level：（10～140）dB，（20～20000）Hz	U=（0.16～0.50）dB		
9	Working Standard Microphones(Coupler Comparison Method)	sound pressure sensitivity level	V.R.of Working Standard Microphones(Coupler Comparison Method) JJG 1019	Frequency response of sound pressure sensitivity level：（10～140）dB，（20～20000）Hz	U=（0.14～0.50）dB		
10	Anechoic Rooms and Hemi-anechoic Rooms	sound pressure level	Calibration Specification for Acoustic Performance of Anechoic Rooms and Hemi-anechoic Rooms JJF 1147	Antisquare sound pressure level for Anechoic Rooms：100Hz～20kHz	U=0.7 dB		
				Hemi-anechoic Rooms：100Hz～20kHz	U=1.0 dB		
				Background Noise;（6.5~110）dB; 20Hz～20kHz	U=0.7 dB		
Ⅲ、Electromagnetic measuring instrument							
1	Fluxgate Magnetometer	Magnetic Induction	Calibration Specification for Fluxgate Magnetometer JJF1519	(-100～100) μT	U=0.3%R_d+10nT		
		Orthogonality		(0～10)°	U=0.15°		
Special measuring instruments							
Ⅳ、Special measuring instruments for construction and traffic							

№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
1	Pile Dynamic Measuring Instrument	Acceleration	V.R.of Pile Dynamic Measuring InstrumentJJG930-1998 JJG930	(0.5～1000)m/s²	U_{rel}=1.4%		
		Strain		(1～2000) μ ε	U_{rel}=2%		
		Frequency		(2～5000)Hz	U_{rel}=0.2%		
Ⅴ、Other measuring instruments							
1	MEMS Gyroscopes	Angular speed	Calibration Specification for MEMS Gyroscopes JJF 1535	(0.01～500)°/s，(-55～85)℃	U_{rel}=1.1×10^{-3}		
				(500～1500)°/s	U_{rel}=1.1×10^{-3}		
		Scale Factor		(1～1×10^{6})mV/(°/s)	U_{rel}=1.4×10^{-3}		
Ⅵ、Geometric measuring instrument							
1		Angle	Calibration Specification for Single Axis Inclination Sensors JJF 2015	Angle:-45°～+45°	U=0.02°		