



PERÚ

Ministerio
de la Producción

Instituto Nacional de Calidad
INACAL

Dirección de Acreditación



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"Decenio de la Igualdad de Oportunidades para Mujeres y Hombres"

San Isidro, 14 de Enero del 2026

OFICIO N° 000026-2026-INACAL/DA

Señora

JESSICA VILLANUEVA LINARES

Gerente de Gestión y Garantía de Calidad

INSTITUTO PERUANO DE METROLOGIA E INNOVACION S.A.C.

Jr. German Amezaga 242, Zona B

San Juan de Miraflores. -

Asunto: Solicitud de reconocimiento mutuo

Referencia: Carta N° IN-C-0331-25 / Nro. Expediente 2025-0013649

De mi consideración:

Es grato dirigirme a usted, en atención a la comunicación de la referencia, mediante la cual solicita una carta de reconocimiento mutuo de acreditación para el Instituto Peruano de Metrología e Innovación que con fecha de 20 de Diciembre del 2025 ha sido acreditado en la ISO/ IEC 17025 como laboratorio de acreditación con certificado N° NAC-019- CL ante el Organismo Acreditador National Accreditation Center - NAC en vista de que dicha organización es miembro del International Laboratory Accreditation Cooperation (ILAC).

Al respecto, de acuerdo con el Informe N°007-2026-INACAL/DA-UFTA, se da respuesta a su solicitud:

1. La Dirección de Acreditación del Instituto Nacional de Calidad, INACAL-DA, dentro de sus funciones, conferidas mediante Ley N° 30224 acredita Organismos de Evaluación de la Conformidad – OEC, tales como laboratorios de calibración facultándolo a emitir Certificados de calibración haciendo uso del símbolo de acreditación para un alcance determinado.
2. Adicionalmente, le informo que la Dirección de Acreditación del Instituto Nacional de Calidad (INACAL-DA), en el marco de sus funciones conferidas mediante Ley N° 30224, a partir del 15 de abril del 2013 es miembro firmante del Acuerdo de Reconocimiento Mutuo con el International Laboratory Accreditation Cooperation (ILAC).
3. En virtud a lo antes indicado, dicho acuerdo permite reconocer la acreditación de un laboratorio acreditado por otro miembro firmante del acuerdo como equivalente a una acreditación otorgada por el INACAL-DA, asimismo permite que los certificados emitidos por los laboratorios de calibración acreditados por los organismos de acreditación (OA) signatarios del ILAC MRA¹, sean aceptados en el país, de la misma manera en que acepta los certificados de los laboratorios de calibración acreditados por el INACAL-DA; **sin embargo, esto no significa que el INACAL-DA pueda adjudicarse estos resultados o las acreditaciones como propias, o que valide la información contenida en dichos certificados.**

¹ Acuerdo de Reconocimiento Mutuo con ILAC

Esta es una copia autentica imprimible de un documento electrónico archivado INACAL, aplicando lo dispuesto por el Art. 25 de D.S. 070-2013-PCM y la Tercera Disposición Complementaria Final del D.S. 026-2016-PCM. Su autenticidad e integridad pueden ser contrastadas a través de la siguiente dirección web: «<https://sgdapp.inacal.gob.pe/verifica/inicio.do>» e ingresando la siguiente clave: «NCKTVEY»

Calle Las Camelias N° 817 - San Isidro, Lima -Perú

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www.inacal.gob.pe



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4. Con respecto a la acreditación otorgada por el Organismo Acreditador National Accreditation Center (NAC), se ha confirmado que la empresa INSTITUTO PERUANO DE METROLOGIA E INNOVACION S.A.C., se encuentra acreditado por este organismo, con el certificado N° NAC-019-CL, como laboratorio de calibración. Asimismo, el Organismo Acreditador National Accreditation Center (NAC) y la Dirección de Acreditación del Instituto Nacional de Calidad, INACAL-DA, son firmantes del Acuerdo de Reconocimiento Mutuo con ILAC, en ese sentido el INACAL-DA reconoce los Certificados de Calibración emitidos por los laboratorios acreditados por el NAC.
5. Cabe precisar que este reconocimiento no constituye una acreditación otorgada por el INACAL-DA, ni implica que este se atribuya como propios los resultados emitidos, ni que valide o asuma responsabilidad sobre la información contenida en los certificados de calibración

Finalmente, si requiere el reconocimiento de algún certificado de calibración emitido por INSTITUTO PERUANO DE METROLOGIA E INNOVACION S.A.C., es necesario que remita una comunicación mediante plataforma de mesa de partes virtual: <https://www.gob.pe/20416-acceder-a-mesa-de-partes?child=21103> solicitando el reconocimiento del certificado de calibración, el cual debe estar adjunto a dicha comunicación.

Sin otro particular, quedo de usted.

Atentamente,

Firmado por

LIDIA PATRICIA AGUILAR RODRIGUEZ

Directora de la Dirección de Acreditación

Instituto Nacional de Calidad

PAR/ofs/vgd/mvs

Adj: Informe N°007-2026-INACAL/DA-UFTA

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NATIONAL
ACCREDITATION
CENTER

ACCREDITATION Certificate

TO BE ACTIVE AS CALIBRATION LABORATORY

INSTITUTO PERUANO DE METROLOGIA E INNOVACION SAC

JR GERMAN AMEZAGA 242, ZONA B, SAN JUAN DE MIRAFLORES

As a result of the assessment conducted by the NAC National Accreditation Center LLC, this laboratory is accredited in accordance with the ISO/IEC 17025:2017 standard, which specifies the general requirements for the competence of testing and calibration laboratories, as detailed in the annexes.

Accreditation Number : NAC-019- CL

Initial Accreditation Date : 20. December.2025

Current Accreditation Cycle : 20. December.2025- 20. December.2029

This certificate is valid until 20. December.2029 provided that the above-mentioned name and address continue to comply with the relevant standards, as well as international and regional regulations, in addition to the organization's documented compliance with ISO/IEC 17025:2017 General Requirements for the competence of testing and calibration laboratories.



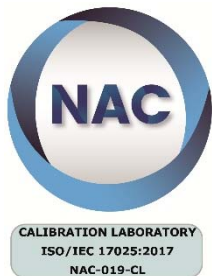
This certificate is given by NAC. The certificate becomes invalid in case of suspension and cancellation of accreditation. For current accreditation information, visit www.nac-us.org or communicate with NAC on info@nac-us.org.



Gaynor
PRESIDENT

Attachment of Accreditation Certificate

SCOPE OF ACCREDITATION

 CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-019-CL	NAC ACCREDITATION NUMBER		NAC-019-CL	
	COMPANY NAME		INSTITUTO PERUANO DE METROLOGIA E INNOVACION SAC	
	ADDRESS		JR GERMAN AMEZAGA 242, ZONA B, SAN JUAN DE MIRAFLORES	
	CONTACT NAME		LORENA VILLANUEVA LINARES	
	TELEPHONE		+51933990149	
	CURRENT ACCREDITATION DATE		20.12.2025	
	ACCREDITATION STANDARD		ISO/IEC 17025:2017	
Accreditation Area			General requirements for the competence of testing and calibration laboratories	
Accreditation Standard			ISO / IEC 17025:2017	
CALIBRATION & MEASUREMENT CAPABILITY (CMC)				
CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
SOUND PRESSURE LEVEL – SOUND LEVEL METERS, NOISE DOSIMETERS	74 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,54 dB	Comparison to Hangzhou Aihua AWA6223 Class 1 Sound Calibrator
SOUND PRESSURE LEVEL – SOUND LEVEL METERS, NOISE DOSIMETERS	84 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,54 dB	Comparison to Hangzhou Aihua AWA6223 Class 1 Sound Calibrator
SOUND PRESSURE LEVEL – SOUND LEVEL METERS, NOISE DOSIMETERS	94 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,54 dB	Comparison to Hangzhou Aihua AWA6223 Class 1 Sound Calibrator
SOUND PRESSURE LEVEL – SOUND LEVEL METERS, NOISE DOSIMETERS	104 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,54 dB	Comparison to Hangzhou Aihua AWA6223 Class 1 Sound Calibrator
SOUND PRESSURE LEVEL – SOUND LEVEL METERS, NOISE DOSIMETERS	114 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,32 dB	Comparison to Deltha Ohm HD9101 Class 1 Sound Calibrator
ACOUSTIC CALIBRATOR	94 Db	23 °C ± 5 °C 60 % rH to 80 % rH	0,15 dB	Comparison to Svantek Class 1 Sound Meter



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ACOUSTIC CALIBRATOR	104 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,15 dB	Comparison to Svantek Class 1 Sound Meter
ACOUSTIC CALIBRATOR	114 dB	23 °C ± 5 °C 60 % rH to 80 % rH	0,19 dB	Comparison to Svantek Class 1 Sound Meter
pH METERS (~ 25 °C)	4,003 pH	23 °C ± 5 °C 45 % rH to 85 % rH	0,021 pH	Comparison to pH Buffer Certified Reference Material
pH METERS (~ 25 °C)	6,892 pH	23 °C ± 5 °C 45 % rH to 85 % rH	0,021 pH	Comparison to pH Buffer Certified Reference Material
pH METERS (~ 25 °C)	9,972 pH	23 °C ± 5 °C 45 % rH to 85 % rH	0,021 pH	Comparison to pH Buffer Certified Reference Material
CONDUCTIVITY METERS (~ 25 °C)	100,12 µS/cm	18 °C ± 28 °C <85 % rH	0,49 µS/cm	Comparison to Conductivity Certified Reference Material
CONDUCTIVITY METERS (~ 25 °C)	1410 µS/cm	18 °C ± 28 °C <85 % rH	6,6 µS/cm	Comparison to Conductivity Certified Reference Material
CONDUCTIVITY METERS (~ 25 °C)	10110 µS/cm	18 °C ± 28 °C <85 % rH	54 µS/cm	Comparison to Conductivity Certified Reference Material
BREATH ALCOHOL METERS	0,2436 mg/L	22 °C ± 2 °C 60 % rH to 80 % rH	0,0076 mg/L	Comparison to Alcohol Certified Reference Material



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ELECTROMAGNETIC FIELD METER (EFM)	-10 to 10 G	23 °C ± 5 °C 60 % rH to 80 % rH	0,47 G	Comparison to Reference Gauss Meter
DC CURRENT – SOURCING DEVICES	500 µA to 5000 µA	23 °C ± 5 °C 60 % rH to 80 % rH	12 µA	Comparison to Fluke 289 Digital Multimeter
DC CURRENT – SOURCING DEVICES	5 mA to 50 mA	24 °C ± 5 °C 60 % rH to 80 % rH	0,060 mA	Comparison to Fluke 289 Digital Multimeter
DC CURRENT – SOURCING DEVICES	50 mA to 400 mA	25 °C ± 5 °C 60 % rH to 80 % rH	0,15 mA	Comparison to Fluke 289 Digital Multimeter
DC CURRENT – SOURCING DEVICES	0.4 A to 5 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,058 A	Comparison to Fluke 289 Digital Multimeter
DC CURRENT – SOURCING DEVICES	5 A to 10 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,058 A	Comparison to Fluke 289 Digital Multimeter
DC VOLTAGE – SOURCING DEVICES	5 mV To 50 mV	23 °C ± 5 °C 60 % rH to 80 % rH	0,063 mV	Comparison to Fluke 289 Digital Multimeter
DC VOLTAGE – SOURCING DEVICES	50 mV To 500 mV	23 °C ± 5 °C 60 % rH to 80 % rH	0,070 mV	Comparison to Fluke 289 Digital Multimeter



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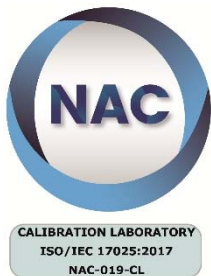
DC VOLTAGE – SOURCING DEVICES	0.5 V to 5 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,058 V	Comparison to Fluke 289 Digital Multimeter
DC VOLTAGE – SOURCING DEVICES	5 V to 50 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,058 V	Comparison to Fluke 289 Digital Multimeter
DC VOLTAGE – SOURCING DEVICES	50 V to 500 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,071 V	Comparison to Fluke 289 Digital Multimeter
DC VOLTAGE – SOURCING DEVICES	500 V to 1000 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,084 V	Comparison to Fluke 289 Digital Multimeter
CLAMP METERS DC HIGH CURRENT	0.6 A to 6 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,29% + 0,09 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100-turn Current Coil
CLAMP METERS DC HIGH CURRENT	6 A to 60 A	24 °C ± 5 °C 60 % rH to 80 % rH	0,58% + 0,072 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100-turn Current Coil
CLAMP METERS DC HIGH CURRENT	60 A to 180 A	25 °C ± 5 °C 60 % rH to 80 % rH	0,34% + 0,22 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100-turn Current Coil



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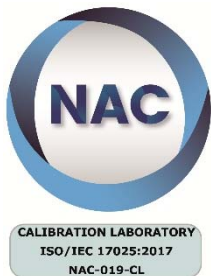
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CLAMP METERS DC HIGH CURRENT	180 A to 300 A	26 °C ± 5 °C 60 % rH to 80 % rH	0,35% + 0,21 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS DC HIGH CURRENT	300 A to 420 A	27 °C ± 5 °C 60 % rH to 80 % rH	0,35% + 0,3 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS DC HIGH CURRENT	420 A to 540 A	28 °C ± 5 °C 60 % rH to 80 % rH	0,46% + -0,248 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS DC HIGH CURRENT	540 A to 600 A	29 °C ± 5 °C 60 % rH to 80 % rH	0,46% + -0,26 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS DC HIGH CURRENT	600 A to 1000 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,34% + 0,44 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil



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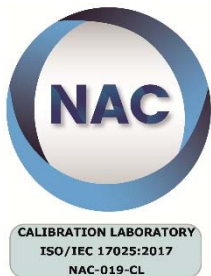
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CLAMP METERS AC HIGH CURRENT	0.6 A to 6 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,59% + 0,088 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS AC HIGH CURRENT	6 A to 60 A	24 °C ± 5 °C 60 % rH to 80 % rH	0,71% + 0,081 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS AC HIGH CURRENT	60 A to 180 A	25 °C ± 5 °C 60 % rH to 80 % rH	0,67% + 0,11 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS AC HIGH CURRENT	180 A to 300 A	26 °C ± 5 °C 60 % rH to 80 % rH	0,5% + 0,41 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil



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CLAMP METERS AC HIGH CURRENT	300 A to 420 A	27 °C ± 5 °C 60 % rH to 80 % rH	0,34% + 0,89 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS AC HIGH CURRENT	420 A to 540 A	28 °C ± 5 °C 60 % rH to 80 % rH	0,76% + -0,86 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS AC HIGH CURRENT	540 A to 600 A	29 °C ± 5 °C 60 % rH to 80 % rH	0,46% + 0,72 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil
CLAMP METERS AC HIGH CURRENT	600 A to 1000 A	30 °C ± 5 °C 60 % rH to 80 % rH	0,43% + 0,96 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator, 100 turn Current Coil



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DC CURRENT – MEASURING DEVICES	50 μ A to 500 μ A	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,17 μ A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC CURRENT – MEASURING DEVICES	0.5 mA to 5 mA	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,0019 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC CURRENT – MEASURING DEVICES	5 mA to 50 mA	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,017 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC CURRENT – MEASURING DEVICES	50 mA to 500 mA	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,18 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC CURRENT – MEASURING DEVICES	0,5 A to 5 A	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,0083 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC CURRENT – MEASURING DEVICES	5 A to 10 A	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,017 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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SCOPE OF ACCREDITATION

 CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-019-CL	NAC ACCREDITATION NUMBER	NAC-019-CL			
	COMPANY NAME	INSTITUTO PERUANO DE METROLOGIA E INNOVACION SAC			
	ADDRESS	JR GERMAN AMEZAGA 242, ZONA B, SAN JUAN DE MIRAFLORES			
	CONTACT NAME	LORENA VILLANUEVA LINARES			
	TELEPHONE	+51933990149			
	CURRENT ACCREDITATION DATE	20.12.2025			
	ACCREDITATION STANDARD	ISO/IEC 17025:2017			
Accreditation Area		General requirements for the competence of testing and calibration laboratories			
Accreditation Standard		ISO / IEC 17025:2017			
CALIBRATION & MEASUREMENT CAPABILITY (CMC)					
CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

AC CURRENT – MEASURING DEVICES (50 Hz)	50 µA to 500 µA	23 °C ± 5 °C 60 % rH to 80 % rH	0,79 µA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (50 Hz)	0.5 mA to 5 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,0077 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (50 Hz)	5 mA to 50 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,077 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (50 Hz)	50 mA to 500 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,77 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (50 Hz)	0,5 A to 5 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,0075 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (50 Hz)	5 A to 10 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,010 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT

AC CURRENT – MEASURING DEVICES (60 Hz)	50 µA to 500 µA	23 °C ± 5 °C 60 % rH to 80 % rH	0,62 µA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (60 Hz)	0.5 mA to 5 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,0061 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (60 Hz)	5 mA to 50 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,061 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (60 Hz)	50 mA to 500 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,62 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

AC CURRENT – MEASURING DEVICES (60 Hz)	0,5 A to 5 A	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,0040 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (60 Hz)	5 A to 10 A	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,0067 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (400 Hz)	50 μ A to 500 μ A	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,62 μ A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (400 Hz)	0.5 mA to 5 mA	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,0077 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
AC CURRENT – MEASURING DEVICES (400 Hz)	5 mA to 50 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,077 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (400 Hz)	50 mA to 500 mA	23 °C ± 5 °C 60 % rH to 80 % rH	0,77 mA	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (400 Hz)	0,5 A to 5 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,0075 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC CURRENT – MEASURING DEVICES (400 Hz)	5 A to 10 A	23 °C ± 5 °C 60 % rH to 80 % rH	0,010 A	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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DC VOLTAGE – MEASURING DEVICES	50 mV to 500 mV	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,088 mV	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC VOLTAGE – MEASURING DEVICES	0.5 V To 5 V	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,00087 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC VOLTAGE – MEASURING DEVICES	5 V To 50 V	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,0087 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC VOLTAGE – MEASURING DEVICES	50 V To 500 V	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,087 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
DC VOLTAGE – MEASURING DEVICES	500 V To 1000 V	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,19 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (50 HZ) – MEASURING DEVICES	50 mV to 500 mV	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,36 mV	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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AC VOLTAGE (50 HZ) – MEASURING DEVICES	0.5 V To 5 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,0037 mV	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (50 HZ) – MEASURING DEVICES	5 V To 50 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,037 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (50 HZ) – MEASURING DEVICES	50 V To 500 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,36 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (50 HZ) – MEASURING DEVICES	500 V To 1000 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,71 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (60 HZ) – MEASURING DEVICES	50 mV to 500 mV	23 °C ± 5 °C 60 % rH to 80 % rH	0,36 mV	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (60 HZ) – MEASURING DEVICES	0.5 V To 5 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,0040 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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AC VOLTAGE (60 HZ) – MEASURING DEVICES	5 V To 50 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,062 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (60 HZ) – MEASURING DEVICES	50 V To 500 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,65 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (60 HZ) – MEASURING DEVICES	500 V To 1000 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,95 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (400 HZ) – MEASURING DEVICES	50 mV to 500 mV	23 °C ± 5 °C 60 % rH to 80 % rH	0,36 mV	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (400 HZ) – MEASURING DEVICES	0.5 V To 5 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,0040 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (400 HZ) – MEASURING DEVICES	5 V To 50 V	23 °C ± 5 °C 60 % rH to 80 % rH	0,062 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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AC VOLTAGE (400 HZ) – MEASURING DEVICES	50 V To 500 V	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,65 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
AC VOLTAGE (400 HZ) – MEASURING DEVICES	500 V To 1000 V	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,95 V	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	10 Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,090 Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	20 Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,13 Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	50 Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,26 Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	100 Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,76 Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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RESISTANCE - MEASURING DEVICE (FIXED POINTS)	200 Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	1,1 Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	500 Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	2,4 Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	1 k Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,058 k Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	2 k Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,059 k Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	5 k Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,063 k Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	10 k Ω	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,075 k Ω	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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RESISTANCE - MEASURING DEVICE (FIXED POINTS)	20 kΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,11 kΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	50 kΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,62 kΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	100 kΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,74 kΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	200 kΩ	23 °C ± 5 °C 60 % rH to 80 % rH	1,1 kΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	500 kΩ	23 °C ± 5 °C 60 % rH to 80 % rH	2,4 kΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	1 MΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,059 MΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator



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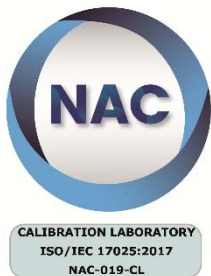
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	2 MΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,059 MΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	5 MΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,065 MΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	10 MΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,076 MΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
RESISTANCE - MEASURING DEVICE (FIXED POINTS)	20 MΩ	23 °C ± 5 °C 60 % rH to 80 % rH	0,11 MΩ	Comparison to HANGZHONGHUANG ET030-F Multifunction Calibrator
ANEMOMETERS - AIR VELOCITY METERS	2 m/s to 6 m/s	23 °C ± 5 °C 60 % rH to 80 % rH	0,00188·v ² +0,00125·v+0,085	Comparison to Reference Anemometer, Wind Tunnel



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ANEMOMETERS - AIR VELOCITY METERS	6 m/s to 10 m/s	23 °C ± 5 °C 60 % rH to 80 % rH	0,00188·v ² +0,00125·v+0,085	Comparison to Reference Anemometer, Wind Tunnel
AIR FLOW RATE - AIR PERSONAL SAMPLING PUMPS	0,2 to 5 L/min	23 °C ± 5 °C 60 % rH to 80 % rH	0,030 L/min	Comparison to BIOS DCL-ML Air Flowmeter
AIR FLOW RATE - VOLUMETRIC FLOW METERS	5 to 10 L/min	23 °C ± 5 °C 60 % rH to 80 % rH	0,087 L/min	Comparison to Stargo Air Flowmeter
WATER FLOW METERS	4,5 to 78,8 gal	23 °C ± 5 °C 60 % rH to 80 % rH	0,59 gal	Comparison to Reference Water Meter
GAS DETECTORS	0 ppm a 20 ppm (H2S)	23 °C ± 5 °C 60 % rH to 80 % rH	1,0 ppm	Comparison to Reference Gas detector
GAS DETECTORS	0 ppm a 60 ppm (CO)	23 °C ± 5 °C 60 % rH to 80 % rH	2,1 ppm	Comparison to Reference Gas detector
GAS DETECTORS	0 % a 17,9 % (O2)	23 °C ± 5 °C 60 % rH to 80 % rH	0,82%	Comparison to Reference Gas detector



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SCOPE OF ACCREDITATION

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	COMPANY NAME	INSTITUTO PERUANO DE METROLOGIA E INNOVACION SAC			
	ADDRESS	JR GERMAN AMEZAGA 242, ZONA B, SAN JUAN DE MIRAFLORES			
	CONTACT NAME	LORENA VILLANUEVA LINARES			
	TELEPHONE	+51933990149			
	CURRENT ACCREDITATION DATE	20.12.2025			
	ACCREDITATION STANDARD	ISO/IEC 17025:2017			
Accreditation Area		General requirements for the competence of testing and calibration laboratories			
Accreditation Standard		ISO / IEC 17025:2017			
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CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

GAS DETECTORS	0 % a 58 % (%LEL)	23 °C ± 5 °C 60 % rH to 80 % rH	1,0 %	Comparison to Reference Gas detector
GAS DETECTORS	0 % a 2.5 % (CO2)	23 °C ± 5 °C 60 % rH to 80 % rH	0,10%	Comparison to Reference Gas detector
DINAMOMETER	0 to 250 Kg	20 °C ± 2 °C 40 % rH to 60 % rH	0,77 kg	Comparison to Reference load cell
TENSIOMETER	0 to 1000 kg	23 °C ± 5 °C 60 % rH to 80 % rH	0,35 kg	Comparison to Reference load cell
HUMIDITY - AIR ENVIROMENT CONDITIONS	40 to 80 %rH	20 °C ± 2 °C 40 % rH to 60 % rH	2,4 %rH	Comparison to Reference Thermo-hygrometer
DIAL INDICATOR/GAUGES	up to 25 mm	20 °C ± 2 °C 40 A 60 % rH	2,6 µm	Comparison to Dial Indicator Calibration Tester
ULTRASONIC THICKNESS GAUGE	6,25 to 25 mm	20 °C ± 2 °C 40 % rH to 60 % rH	58 µm	Comparison to Steel Stepped Wedge/ Gauge
ROUGHNESS METER	1,6 µm	23 °C ± 5 °C 60 % rH to 80 % rH	0,060 µm	Comparison to Steel roughness block



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GONIOMETER	1 to 75 °	23 °C ± 5 °C 60 % rH to 80 % rH	0,041°	Comparison to Steel angle blocks Class 1
CALIPERS (OUTSIDE)	1 mm to 270 mm	20 °C ± 2 °C 40 % rH to 60 % rH	11 µm	Comparison to ISO 3650 Grade 1 Ceramic Gauge Block Set
CALIPERS (INSIDE)	9,997 mm	20 °C ± 2 °C 40 % rH to 60 % rH	11 µm	Comparison to ISO 3650 Grade 1 Ceramic Gauge Block Set
CALIPERS (DEPTH)	10 mm	20 °C ± 2 °C 40 % rH to 60 % rH	11 µm	Comparison to ISO 3650 Grade 1 Ceramic Gauge Block Set
DEPTH MICROMETERS	2,5 to 25 mm	23 °C ± 5 °C 60 % rH to 80 % rH	2,4 µm	Comparison to ISO 3650 Grade 1 Gauge Block Set
OUTSIDE MICROMETER	2,5 to 25 mm	20 °C ± 2 °C 40 % rH to 60 % rH	1,4 µm	Comparison to ISO 3650 Grade 1 Ceramic Gauge Block Set
MASS – OIML CLASSES M2 MASS STANDARDS	10 Kg	18 °C a 27 °C , no condensation	150 mg	Comparison to OIML Class M1 Weight Set, Balance
MASS – OIML CLASSES M2 MASS STANDARDS	20 Kg	18 °C a 27 °C , no condensation	500 mg	Comparison to OIML Class M1 Weight Set, Balance



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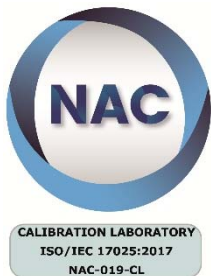
SCALES & BALANCES CLASS III & IV	275 Kg	18 °C a 27 °C , no condensation	$2(0,018 \cdot 10^{-4} + 0,013 \cdot 10^{-8} \cdot R^2)^{1/2}$	Standard Weights
FILTER WEARING TEST	5 To 100 mg	20 °C ± 2 °C 40 % rH to 60 % rH	0,0031 mg	Comparison to Reference Scale
UV-A METERS	1100 to 2700 µW/cm2	23 °C ± 5 °C 60 % rH to 80 % rH	30 µW/cm2 + 1,602 %rdg	Comparison to Reference UV Meter
TURBIDIMETER	20 NTU	23 °C ± 5 °C 45 % rH to 85 % rH	0,34 NTU	Comparison to Turbidity Certified Reference Material
TURBIDIMETER	100 NTU	23 °C ± 5 °C 45 % rH to 85 % rH	2,0 NTU	Comparison to Turbidity Certified Reference Material
TURBIDIMETER	800 NTU	23 °C ± 5 °C 45 % rH to 85 % rH	10 NTU	Comparison to Turbidity Certified Reference Material
LIGTH METERS CCT 3500 K	50 to 3980 lux	23 °C ± 5 °C 60 % rH to 80 % rH	1,7 lx + 2,56 %rdg	Comparison to Reference Light Meter
LIGTH METERS CCT 6000 K	50 to 3980 lux	23 °C ± 5 °C 60 % rH to 80 % rH	3,8 lx + 2,48 %rdg	Comparison to Reference Light Meter



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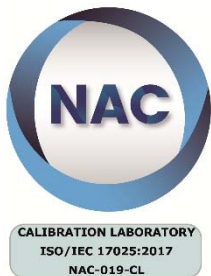
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CALIBRATION AREA	RANGE & RESOLUTION	MEASUREMENT REQUIREMENTS	EXPANDED UNCERTAINTY (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
HYDRAULIC GAUGE PRESSURE - PRESSURE GAUGES	0 to 15 psi	23 °C ± 5 °C 60 % rH to 80 % rH	0,039 psi	Comparison to Reference Digital Pressure Gauge
HYDRAULIC GAUGE PRESSURE - PRESSURE GAUGES	0 to 5000 psi	23 °C ± 5 °C 60 % rH to 80 % rH	0,99 psi	Comparison to Reference Digital Pressure Gauge
HYDRAULIC GAUGE PRESSURE - PRESSURE GAUGES	5000 to 10000 psi	23 °C ± 5 °C 60 % rH to 80 % rH	21 psi	Comparison to Reference Digital Pressure Gauge
VACUUM GAUGES	-12 to 0	23 °C ± 5 °C 60 % rH to 80 % rH	0,50 psi	Comparison to Elitech Reference Vacuum Gauge
THERMOMETER IF	20 °C to 45 °C	20 °C ± 2 °C 40 % rH to 60 % rH	2,1 °C	Comparison to Reference Fluke IF thermometer



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ISOTHERMAL MEDIA	-10 a 250 °C	Temperature: 15°C to 32°C Minimum result reporting interval: 0.1°C Maximum number of sensors to be used: 12 Maximum internal volume: 4/5 of the height, length, and width of the internal volume	0,79 °C	Comparison to Reference multichannel temperature
ELECTRICAL SIMULATION OF THERMOCOUPLE INDICATING DEVICE (TYPE J)	-20 to 100 °C	23 °C ± 5 °C 60 % rH to 80 % rH	0,79 °C	Comparison to Fluke 726 Process Calibrator
ELECTRICAL SIMULATION OF THERMOCOUPLE INDICATING DEVICE (TYPE K)	-20 to 100 °C	23 °C ± 5 °C 60 % rH to 80 % rH	1,0 °C	Comparison to Fluke 726 Process Calibrator



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TEMPERATURE - AIR ENVIROMENT CONDITIONS	20 to 30 °C	20 °C $\pm$ 2 °C 40 % rH to 60 % rH	0,78 °C	Comparison to Reference Thermo-hygrometer
CENTRIFUGES - ROTACIONAL VELOCITY	50 to 2000 rpm	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	5,8 rpm	Comparison to Reference Optical Tachometer
CENTRIFUGES - ROTACIONAL VELOCITY	2000 to 85500 rpm	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	6,1 rpm	Comparison to Reference Optical Tachometer
STOPWATCHES	1800 to 32400 s	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,17 s	Comparison to Reference Stopwatch
TORQUE TOOLS (CLOCKWISE)	5 to 500 Nm	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	2,175% rdg - 0,043 N.m	ISO 6789:2017 using Torque Calibration System
TORQUE TOOLS (COUNTERCLOCKWISE)	5 to 500 Nm	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	2,206% rdg + 0,143 N.m	ISO 6789:2017 using Torque Calibration System
ACCELEROMETER 1, 2 o 3 AXIS (X,Y,Z)	1,1 to 6,1 m/s ²	23 °C $\pm$ 5 °C 60 % rH to 80 % rH	0,70 m/s ²	Comparison to Reference vibrometer

Note: The uncertainty covered by the CMC shall be expressed as the expanded uncertainty having a coverage probability of approximately 95%



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