

MECANOLAB

Additional scope (traceability) according to standard ISO/IEC 17025:2017

Soluciones Ingenieriles Cano S.A.S. de C.V.
 Cuauhtémoc Cárdenas #164, Col. Amalia Solórzano
 Querétaro, Querétaro, México CP. 76148

Mechanical. Mass, Force and Weighing Devices, Thermodynamic and Time and Frequency Calibration

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Microscopes	0 mm to 10 mm	(0.1 + 0.4L) μm	Linear Scales
Linear scales, Rules and Tapes	0 mm to 1000 mm	(19 + 0.1L) μm	Magnifier and Linear Scales
Pin gages	0.010 mm to 25 mm	(2 + 0.3L) μm	Micrometer
Ring gages	0.010 mm to 25 mm	(2 + 0.3L) μm	Micrometer
Flatness surface	1000 x 1000 mm	0.5 μm	High precision indicator
Block gauges	0.01 mm to 150 mm	(1 + 0.4L) μm	High precision laser comparator

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Relative Humidity Chamber	35% to 95%	2%	Data Logger

Force

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Force – Tension (Dynamometer, Universal testing machine and load cells)	0.01 N to 10 kN	0.01 kN	Load Cell Class C1

Time & Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Tachometer	50 000 RPM	0.91 RPM	Stroboscope calibrator
Vibration test bench	99 999 RPM	0.98 RPM	Digital tachometer

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Chemical

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Conductivity Meter	5 μ S/cm to 12.88 mS/cm	1 % of reading	Standard Solution
pH Measure	4 pH	0.02 pH	Standard Solution
	7 pH	0.02 pH	
	10 pH	0.02 pH	

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Frequency source (Signal generator)	1 Hz to 2.6 GHz	0.013Hz	High Accuracy Universal counter (8 1/2digits)
Gauss meter	-20 to 20 Gauss	1.1 Gauss	Digital tester and magnets
pH Measure	4 pH	0.02 pH	Standard Solution
	7 pH	0.02 pH	
	10 pH	0.02 pH	

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METROLOGÍA A LA VANGUARDÍA