

**CALIBRATION LABORATORIES**

**NVLAP LAB CODE 600306-0**

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

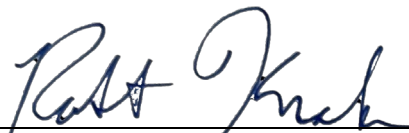
<b>Technical Safety Services, LLC</b> 823 Kifer Road Sunnyvale, CA 94086 United States Eric Sammon <a href="mailto:esammon@techsafety.com">esammon@techsafety.com</a> phone: 510-290-1273 URL: <a href="https://techsafety.com/">https://techsafety.com/</a>	<b>Fields of Calibration</b> Dimensional Mechanical Thermodynamic Time & Frequency
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**CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) Notes 1,2**

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty Notes 3	Remarks
<b>DIMENSIONAL</b>			
<b>LENGTH &amp; DIAMETER; STEP GAGES (20/D05)</b>			
Micrometers	[1 to 25] mm (25 to 50] mm (50 to 75] mm	0.78 µm 0.97 µm 1.3 µm	AMSE Grade 0 Gage Blocks
Calipers	[1 to 150] mm	6.1 µm	AMSE Grade 0 Gage Blocks
<b>MECHANICAL</b>			
<b>MASS DETERMINATION (20/M08)</b>			
Mass Pieces	[1 to 500] mg (0.5 to 2] g (2 to 50] g (50 to 80] g (80 to 200] g (200 to 1000] g (1 to 10] kg	0.0032 mg 0.012 mg 0.06 mg 0.07 mg 0.52 mg 1.3 mg 14 mg	Troemner Ultra Class Gold Mass Pieces (ASTM E617 Class 00)

2025-06-09 through 2025-12-31

Effective dates

  
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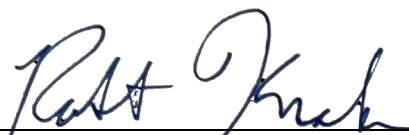
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**CALIBRATION AND MEASUREMENT CAPABILITIES (CMC)** Notes 1,2

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty Notes 3	Remarks
<b>VOLUME and DENSITY (20/M12)</b>			
Volumetric Pipettes Field calibrations available Note 4	[5 to 10] µL (10 to 50] µL (50 to 100] µL (100 to 1000] µL	0.14 µL 0.7 µL 1.4 µL 16 µL	Gravimetric Method Mettler XPR106DUH Balance Pipette Tracker Software
<b>SPEED INDICATORS (20/M14)</b>			
Photometric Field calibrations available Note 4	[0 to 10000] RPM (10000 to 50000] RPM (50000 to 99995) RPM	1.3 RPM 5.1 RPM 10.0 RPM	Monarch PT99
<b>WEIGHING INSTRUMENTS (20/M16)</b>			
Scales and Balances Field calibrations available Note 4	[1 to 500] mg (0.5 to 2] g (2 to 50] g (50 to 80] g (80 to 100] g (100 to 200] g (200 to 500] g (500 to 1000] g	0.0030 mg 0.0072 mg 0.056 mg 0.087 mg 0.13 mg 0.23 mg 0.58 mg 1.1 mg	Troemner Ultra Class Gold Mass Pieces (ASTM E617 Class 00)
<b>THERMODYNAMIC</b>			
<b>HUMIDITY (20/T02)</b>			
%RH Sensors & Incubators Field calibrations available Note 4	[10-25] %RH (25-75] %RH (75-95] %RH	1.1%RH 1.2 %RH 2.0 %RH	Vaisala MI70 & HMP77B
<b>LABORATORY THERMOMETERS, DIGITAL AND ANALOGUE (20/T03)</b>			
Digital and Analogue Thermometers Field calibrations available Note 4	[-95 to 140) °C (140 to 400] °C	0.010 °C 0.024 °C	PRTs with baths and wells

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Measured Parameter or Device Calibrated	Range	Expanded Uncertainty Notes 3	Remarks
<b>PRESSURE (20/T05)</b>			
Pneumatic Pressure Gages Field calibrations available Note 4	[0 to 30] PSIG (30 to 100] PSIG (100 to 500] PSIG	0.0078 PSIG 0.051 PSIG 0.13 PSIG	Pressure Gages
<b>VACUUM &amp; LOW PRESSURE GAGES (20/T09)</b>			
Pneumatic Pressure Gages Field calibrations available Note 4	(0 to 0.5] in H <sub>2</sub> O (0.5 to 5] in H <sub>2</sub> O (5 to 40] in H <sub>2</sub> O	0.0004 in H <sub>2</sub> O 0.003 in H <sub>2</sub> O 0.03 in H <sub>2</sub> O	Pressure Gages
Vacuum Gages Field calibrations available Note 4	[-14 to 0] PSIV	0.0037 PSIV	Vacuum Gages
<b>TIME &amp; FREQUENCY</b>			
<b>STOPWATCHES and TIMERS (20/F05)</b>			
Timers Field calibrations available Note 4	[10 sec to 10 min] (10 min to 10 hours]	5.1 sec 21 sec	Stopwatch
<b>END</b>			

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**Notes**

**Note 1:** A Calibration and Measurement Capability (CMC) is a description of the best result of a calibration or measurement (result with the smallest uncertainty of measurement) that is available to the laboratory's customers under normal conditions, when performing more or less routine calibrations of nearly ideal measurement standards or instruments. The CMC is described in the laboratory's scope of accreditation by: the measurement parameter/device being calibrated, the measurement range, the uncertainty associated with that range (see note 3), and remarks on additional parameters, if applicable.

**Note 2:** Calibration and Measurement Capabilities are traceable to the national measurement standards of the U.S. or to the national measurement standards of other countries and are thus traceable to the internationally accepted representation of the appropriate SI (Système International) unit.

**Note 3:** The uncertainty associated with a measurement in a CMC is an expanded uncertainty with a level of confidence of approximately 95 %, typically using a coverage factor of  $k = 2$ . However, laboratories may report a coverage factor different than  $k = 2$  to achieve the 95 % level of confidence. Units for the measurand and its uncertainty are to match. Exceptions to this occur when marketplace practice employs mixed units, such as when the artifact to be measured is labeled in non-SI units and the uncertainty is given in SI units (Example: 5 lb weight with uncertainty given in mg).

**Note 3a:** The uncertainty of a specific calibration by the laboratory may be greater than the uncertainty in the CMC due to the condition and behavior of the customer's device and specific circumstances of the calibration. The uncertainties quoted do not include possible effects on the calibrated device of transportation, long term stability, or intended use.

**Note 3b:** As the CMC represents the best measurement results achievable under normal conditions, the accredited calibration laboratory shall not report smaller uncertainty of measurement than that given in a CMC for calibrations or measurements covered by that CMC.

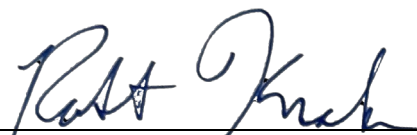
**Note 3c:** As described in Note 1, CMCs cover calibrations and measurements that are available to the laboratory's customers under *normal conditions*. However, the laboratory may have the capability to offer special tests, employing special conditions, which yield calibration or measurement results with lower uncertainties. Such special tests are not covered by the CMCs and are outside the laboratory's scope of accreditation. In this case, NVLAP requirements for the labeling, on calibration reports, of results outside the laboratory's scope of accreditation apply. These requirements are set out in Annex A.1.h. of NIST Handbook 150, Procedures and General Requirements.

**Note 4:** Uncertainties associated with field service calibration may be greater as they incorporate on-site environmental contributions, transportation effects, or other factors that affect the measurements. (This note applies only if marked in the body of the scope.)

**Note 6:** NVLAP accreditation is the formal recognition of specific calibration capabilities. Neither NVLAP nor NIST guarantee the accuracy of individual calibrations made by accredited laboratories.

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