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Calibration Certificate

#2056638

(Level 3) ISO/IEC 17025:2017 Accredited Calibration with Measurement Uncertainty

Customer

Illiana Instrumentation Service LLC
(7954)
1831 Govert Drive
Scherverville, Indiana 46375
PO Number: 3980

Instrument Profile

Manufacturer: *Beta*
Model: *PI-03K*
Asset ID: *1346*
Serial: *9074027*
Description: *Pressure Gauge, Digital, 0-3000 psig*

Calibration Information

†Requested Interval: _____
Calibration Date: *07/08/2019*
†Due Date: _____
Temperature: *73.5 °F (23.0 °C)*

Batch #: *1826185*
Calibration Location: *Indiana Physical Lab*
Calibration Procedure: *CP-0096*
Relative Humidity: *42.0 %*

† The customer has requested that the calibration interval and the applicable due date be left blank. The Due Date has a template for convenience to be completed by the end-user. This instrument will not be listed on the courtesy Calibration Reminder Letter issued by Cal Lab and it's timely recalibration is left up to the customer.

Instrument Condition

As Received: *In Tolerance*
As Returned: *In Tolerance*
Tolerance(s): *Manufacturer specification(s) unless otherwise specified.*
Phys. Damage: *No apparent evidence of physical or cosmetic damage noted during this calibration.*

Quality & Traceability Statements

Level 3 Calibration

The results reported herein apply only to the calibration of the item described above. All calibration standards used in this calibration are traceable to the International System of Units (SI) through NIST or equivalent National Measurement Institute signatories to the CIPM MRA. Supporting documentation relating to this traceability is initiated by the Trace Number listed in the Calibration Standards section of this certificate. Additional documentation is available for review by a scheduled appointment. Our Quality System is accredited to ISO/IEC 17025:2017, ANSI/NCSL Z540-1:1994 and ANSI/NCSL Z540.3:2006 via the ANSI-ASQ National Accreditation Board. Details of our scope of accreditation are available at www.anab.org.

†Per the requirements of ISO-17025:2017, Cal Lab does not make recommendations for recall therefore the listed Due Date is dictated by the owner of this equipment. Although the item calibrated meets the conditions or specifications at the time of the calibration, due to a number of factors the due date of the item calibrated does not imply continuing conformance during the calibration interval.

The parameters of this calibration are directly or indirectly covered under our current scope of accreditation unless otherwise noted. The reported expanded uncertainty of measurement is reported at a coverage factor of $k=2$, which for a normal distribution corresponds to a coverage of approximately 95%. The EMU does include the resolution of the instrument calibrated, which in some cases, may be a dominate source of error, but does not include Type A contributors (repeatability/reproducibility studies) of the instrument calibrated unless specifically requested by the customer. The uncertainty values reflect the measurement processes uncertainty and may not reflect the measurement uncertainty listed on our scope of accreditation. The reported measurement uncertainty is not considered (i.e. measured value \pm EMU) when making statements of compliance to specification (i.e. In tolerance, OOT, Pass/Fail, etc.) unless requested by the customer.

For purposes of determining conformance with the listed specifications (tolerances), the observed value or a calculated value has been rounded "to the nearest unit" in the last right-hand digit used in expressing the specification limit, in accordance with the rounding method of ASTM Practice E 29 for Using Significant Digits in Test Data to Determine Conformance with Specifications.

This certificate may contain calibration data with results listed as either Pass or Fail. These attributes are typically listed as a functional check based on an applied measurand or verification, however, this is strictly Qualitative and should not be interpreted as a Quantitative measurement.



(Level 3) Calibration Certificate # 2056638
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Tyler Vincent

Calibration Technician
Tyler Vincent
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Jeff Breidigan

Review & Approval
Jeff Breidigan
Metrology Manager
Jeff.Breidigan@calabco.com





Calibration Standards

Description	Manufacturer	Model	ID#	Due Date	Issuance #
Thermohygrometer, (Environmental Only)	Dickson	TM320	2394	11/30/2019	1975933
Pressure Measurement Module, 0 to 1000 PSI	Fluke	PM200-G7M	2483	05/31/2020	2054587
Pressure Measurement Module, 0 to 500 psi	Fluke	PM200-G3.5M	2488	10/31/2019	1967782
Pressure Measurement Module, 0 to 3000 PSI	Fluke	PM200-G20M	2491	10/31/2019	1966922

Indicates that this equipment is only used to monitor & record environmental conditions as listed in the Calibration Information Section.

Calibration Data

>>> For quick review, any Function/Attribute with an Out-of-Tolerance reading (OOT) has been highlighted. <<<

Function / Attribute	Nominal Value	As Found	As Left	Tolerance
Ascending	300.0 psig	300.0	300.0	298.5 to 301.5 psig [EMU 0.12 psig]
Ascending	900.0 psig	900.1	900.1	898.5 to 901.5 psig [EMU 0.21 psig]
Ascending	1500.0 psig	1500.3	1500.3	1498.5 to 1501.5 psig [EMU 0.61 psig]
Ascending	2100.0 psig	2100.4	2100.4	2098.5 to 2101.5 psig [EMU 0.61 psig]
Ascending	2700.0 psig	2700.2	2700.2	2698.5 to 2701.5 psig [EMU 0.61 psig]
Descending	2100.0 psig	2100.2	2100.2	2098.5 to 2101.5 psig [EMU 0.61 psig]
Descending	1500.0 psig	1500.0	1500.0	1498.5 to 1501.5 psig [EMU 0.61 psig]
Descending	900.0 psig	900.0	900.0	898.5 to 901.5 psig [EMU 0.21 psig]
Descending	300.0 psig	300.1	300.1	298.5 to 301.5 psig [EMU 0.12 psig]