

TRANSCAT® CERTIFICATE OF CALIBRATION

Trust in every measure

Customer: ILLIANA INSTRUMENT
1831 Govert Drive
Scherverville, IN 46375



NVLAP LAB CODE
200867-0

PO Number: 3621

Certificate/SO Number: 15-A7L5W-20-1 Revision 1

Manufacturer: Beta Division
Model Number: PI-03K
Description: Pressure Gauge
Serial Number: 9074027
ID: 1346

As-Found: In Tolerance
As-Left: In Tolerance

Calibration Date: June 13, 2016

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC30521-0

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2005. Accredited calibrations performed within the Lab's Scope of Accreditation are indicated by the presence of the Accrediting Body's Logo and Certificate Number on this Certificate of Calibration. Any measurements on an accredited calibration not covered by that Lab's Scope of Accreditation are listed in the notes section of the certificate. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, SCC, NRC, CLAS, ANAB or any agency of the Federal Government. NVLAP, NIST, SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual Revision 1, ISO 9001:2008, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B and ASME NQA-1:2012 are also covered. Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are shown on the Supplemental Report.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.


Uncertainties are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted on the Supplemental Report. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested, and the determination of in or out of tolerance is specific to the model/serial no. referenced above based on the tolerances shown on the supplemental report; these tolerances are either the original equipment manufacturer's (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Notes:


Calibrated At:
2056 S. Alex Road
West Carrollton, OH 45449

Facility Responsible:
2056 S. Alex Road
West Carrollton, OH 45449
800-828-1470

Calibrated By:
 Digitally Signed By
Daniel Quigney

Date: June 13, 2016

Daniel Quigney
Calibration Technician

Reviewed By:
 Digitally Signed By
Marc Rhoades for

Date: June 13, 2016

Derek Atkinson
Lab Manager

Unit Barcode:



015A0018759

Date Received: June 08, 2016

Revised On: Revised on June 16, 2016

Certificate - Page 1 of 1

Reprinted on June 16, 2016

Customer Number: 1-520763-000

F0013R29 1/4/16

Customer: ILLIANA INSTRUMENT

PO Number: 3621

Certificate/SO Number: 15-A7L5W-20-1 Revision 1

Manufacturer: Beta Division	Service Type: R9
Model Number: PI-03K	
Description: Pressure Gauge	
Serial Number: 9074027	Calibration Date: Jun 13, 2016
ID: 1346	Date Due:
	Calibration Procedure: 1-AC30521-0

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O O T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Pressure Measure										
Pressure Linearity	0.0psig	±(0.05% FS)	-1.5	1.5	0.0 psig					
	299.8psig	±(0.05% FS)	298.3	301.3	299.9 psig		1.2e-001	2.1e-001	psig	12.5 : 1
	599.7psig	±(0.05% FS)	598.2	601.2	599.5 psig		1.2e-001	2.1e-001	psig	12.5 : 1
	899.5psig	±(0.05% FS)	898.0	901.0	899.4 psig		1.2e-001	2.1e-001	psig	12.5 : 1
	1199.3psig	±(0.05% FS)	1197.8	1200.8	1199.3 psig		1.2e-001	2.1e-001	psig	12.5 : 1
	1499.2psig	±(0.05% FS)	1497.7	1500.7	1499.1 psig		1.2e-001	2.1e-001	psig	12.5 : 1
	1799.0psig	±(0.05% FS)	1797.5	1800.5	1798.8 psig		1.4e-001	2.2e-001	psig	10.7 : 1
	2098.8psig	±(0.05% FS)	2097.3	2100.3	2098.6 psig		1.7e-001	2.4e-001	psig	8.8 : 1
	2398.7psig	±(0.05% FS)	2397.2	2400.2	2398.5 psig		1.9e-001	2.6e-001	psig	7.9 : 1
	2698.5psig	±(0.05% FS)	2697.0	2700.0	2698.2 psig		2.2e-001	2.8e-001	psig	6.8 : 1
	2998.3psig	±(0.05% FS)	2996.8	2999.8	2998.2 psig		2.4e-001	3.0e-001	psig	6.3 : 1
Hysteresis	1799.0psig	±(0.05% FS)	1797.5	1800.5	1799.0 psig		1.4e-001	2.2e-001	psig	10.7 : 1
	1499.2psig	±(0.05% FS)	1497.7	1500.7	1499.1 psig		1.2e-001	2.1e-001	psig	12.5 : 1
	1199.3psig	±(0.05% FS)	1197.8	1200.8	1199.4 psig		1.2e-001	2.1e-001	psig	12.5 : 1

The column labeled Cal Process Uncertainty (CPU) does not include the short term component of the UUT. The column labeled Measurement Uncertainty includes both CPU and the short term component of the UUT. TUR is calculated using CPU.

Note: Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

(*) Revised on June 16, 2016 from Revision 0.

Certificate/SO Number: 15-A7L5W-20-1 Revision 1

Field not applicable. (P = Pass, F = Fail)

TRANSCAT[®] SUPPLEMENTAL REPORT

Trust in every measure CALIBRATION LAB DATA AS FOUND / AS LEFT

Customer: ILLIANA INSTRUMENT

PO Number: 3621

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As Found and As Left Data recorded on June 13, 2016

Temperature 71.0°F / 21.6°C Relative Humidity 47% Temp/RH Asset M1324

Asset	Manufacturer	Model	Description	Cal Date	Due Date	Traceability Numbers
M1830	Fluke Corporation	P3125-PSI	Deadweight Tester, Hydraulic 10 to 16,000 PSI	Mar 31, 2016	Mar 31, 2017	1500196934
M1860	Electro-therm	SH66A (4010 & 4011)	Digital Thermometer, w/ 2 Probes	Jun 02, 2015	Jun 30, 2016	15-&M1860-1-1

The column labeled Cal Process Uncertainty (CPU) does not include the short term component of the UUT. The column labeled Measurement Uncertainty includes both CPU and the short term component of the UUT. TUR is calculated using CPU.

Note: Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

(*) Revised on June 16, 2016 from Revision 0.

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Field not applicable. (P = Pass, F = Fail)