

TRANSCAT® CERTIFICATE OF CALIBRATION

Trust in every measure

Customer: ILLIANA INSTRUMENT
1831 Govert Drive
Schererville, IN 46375

NVLAP®
NVLAP LAB CODE
200866-0

PO Number: 3605

Certificate/SO Number: M5-A7C3M-20-1 Revision 0

Manufacturer: Fluke Corporation
Model Number: 700PD7
Description: Pressure Module, Dual
Serial Number: 80254706
ID: 1229

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

Calibration Date: May 17, 2016
Due Date: May 17, 2018

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC07511-11

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 I, 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:
527 Mae Court
Fenton, MO 63026

Facility Responsible:
527 Mae Court
Fenton, MO 63026
800-828-1470

Calibrated By:
 Digitally Signed By
Rodger Mansker
Date: May 17, 2016
Rodger Mansker
Calibration Technician

Reviewed By:
 Digitally Signed By
Dennis Evans
Date: May 17, 2016
Dennis Evans
Lab Manager

Unit Barcode: 
015A0007288

Date Received: May 12, 2016

Customer: ILLIANA INSTRUMENT

PO Number: 3605

Certificate/SO Number: M5-A7C3M-20-1 Revision 0

Manufacturer: Fluke Corporation	Service Type: R9
Model Number: 700PD7	
Description: Pressure Module, Dual	
Serial Number: 80254706	Calibration Date: May 17, 2016
ID: 1229	Date Due: May 17, 2018
	Calibration Procedure: 1-AC07511-11

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process Measurement		Units	TUR
						Uncertainty (k=2; ±)	Uncertainty (k=2; ±)		
Pressure Measure									
Linearity Pressure	40.00psi	±(0.07% Span)	39.85	40.15	40.01 psi	2.9e-003	1.8e-002	psi	51.7 : 1
	80.00psi	±(0.07% Span)	79.85	80.15	80.00 psi	5.2e-003	1.8e-002	psi	28.8 : 1
	120.00psi	±(0.07% Span)	119.85	120.15	120.01 psi	7.8e-003	1.9e-002	psi	19.2 : 1
	160.00psi	±(0.07% Span)	159.85	160.15	160.02 psi	1.0e-002	2.0e-002	psi	15.0 : 1
	200.00psi	±(0.07% Span)	199.85	200.15	200.01 psi	1.3e-002	2.2e-002	psi	11.5 : 1
Hysteresis	120.00psi	±(0.07% Span)	119.85	120.15	120.01 psi	7.8e-003	1.9e-002	psi	19.2 : 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.

Revision 0

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

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PO Number: 3605

Certificate/SO Number: M5-A7C3M-20-1 Revision 0

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process Measurement		Units	TUR
						Uncertainty (k=2; ±)	Uncertainty (k=2; ±)		
Pressure Measure									
Vacuum Linearity	-2.95psi	±(0.07% Span)	-3.10	-2.80	-2.95 psi	1.7e-003	1.7e-002	psi	88.2 : 1
	-5.89psi	±(0.07% Span)	-6.04	-5.74	-5.89 psi	1.7e-003	1.7e-002	psi	88.2 : 1
	-8.84psi	±(0.07% Span)	-8.99	-8.69	-8.84 psi	1.7e-003	1.7e-002	psi	88.2 : 1
	-11.79psi	±(0.07% Span)	-11.94	-11.64	-11.79 psi	1.7e-003	1.7e-002	psi	88.2 : 1
	-14.00psi	±(0.07% Span)	-14.15	-13.85	-14.01 psi	1.7e-003	1.7e-002	psi	88.2 : 1
Hysteresis	-5.89psi	±(0.07% Span)	-6.04	-5.74	-5.89 psi	1.7e-003	1.7e-002	psi	88.2 : 1

As Found and As Left Data recorded on May 17, 2016

Temperature 66.8°F / 19.3°C Relative Humidity 39% Temp/RH Asset 10094

Asset	Manufacturer	Model	Description	Cal Date	Due Date	Traceability Numbers
10000	Cosa Instrument Corp.	T3500/3	Deadweight Tester, Vac to 500	Oct 30, 2014	Oct 31, 2016	5-&10000-16-1
10013	Cooper Instruments	SH66A	Digital Thermometer	Sep 01, 2015	Sep 30, 2016	M5-&10013-25-1
10091	Meriam Instruments	M200-AI0038	Smart Manometer	Aug 31, 2015	Aug 31, 2016	M5-&10091-6-1

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Revision 0

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