

Customer: ILLIANA INSTRUMENT
1831 Govert Drive
Schererville, IN 46375



NVLAP LAB CODE
200867-0

PO Number: 3605

Certificate/SO Number: 15-A7C3O-20-1 Revision 0

Manufacturer: Fluke Corporation
Model Number: 700P24
Description: Pressure Module, Differential
Serial Number: 80002407
ID: 1230

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

Calibration Date: May 16, 2016
Due Date: May 16, 2018

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC06089-7

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/NCCL 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: May 16, 2016

Reviewed By:
 Digitally Signed By
Marc Rhoades for
Date: May 17, 2016

Unit Barcode: 
015A0007286

Date Received: May 12, 2016

Daniel Quigney
Calibration Technician

Derek Atkinson
Lab Manager

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Manufacturer: Fluke Corporation	Service Type: R9
Model Number: 700P24	
Description: Pressure Module, Differential	
Serial Number: 80002407	Calibration Date: May 16, 2016
ID: 1230	Date Due: May 16, 2018
	Calibration Procedure: 1-AC06089-7

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Pressure Measure									
Linearity High Port	0.000psi	±(0.05% Span)	-0.008	0.008	0.000 psi				
	1.500psi	±(0.05% Span)	1.492	1.508	1.500 psi	1.4e-004	8.8e-004	psi	57.0 : 1
	3.000psi	±(0.05% Span)	2.992	3.008	3.000 psi	2.8e-004	9.1e-004	psi	29.0 : 1
	4.500psi	±(0.05% Span)	4.492	4.508	4.500 psi	4.1e-004	9.6e-004	psi	19.5 : 1
	6.000psi	±(0.05% Span)	5.992	6.008	6.000 psi	5.5e-004	1.0e-003	psi	14.7 : 1
	7.500psi	±(0.05% Span)	7.492	7.508	7.500 psi	6.8e-004	1.1e-003	psi	11.8 : 1
	9.000psi	±(0.05% Span)	8.992	9.008	9.000 psi	8.2e-004	1.2e-003	psi	9.8 : 1
	10.500psi	±(0.05% Span)	10.492	10.508	10.499 psi	9.5e-004	1.3e-003	psi	8.4 : 1
	12.000psi	±(0.05% Span)	11.992	12.008	11.999 psi	1.1e-003	1.4e-003	psi	7.4 : 1
	13.500psi	±(0.05% Span)	13.492	13.508	13.499 psi	1.2e-003	1.5e-003	psi	6.6 : 1
Hysteresis	15.000psi	±(0.05% Span)	14.992	15.008	15.000 psi	1.4e-003	1.6e-003	psi	5.9 : 1
	9.000psi	±(0.05% Span)	8.992	9.008	9.000 psi	8.2e-004	1.2e-003	psi	9.8 : 1
	7.500psi	±(0.05% Span)	7.492	7.508	7.500 psi	6.8e-004	1.1e-003	psi	11.8 : 1
	6.000psi	±(0.05% Span)	5.992	6.008	6.000 psi	5.5e-004	1.0e-003	psi	14.7 : 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

Certificate/SO Number: 15-A7C3O-20-1 Revision 0

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

Calibration Lab Data Report - Page 1 of 2

F0177R2 03/22/16

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Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Cal Process Measurement		Units	TUR
						Uncertainty (k=2; ±)	Uncertainty (k=2; ±)		
Pressure Measure									
Differential Measurement	0.000psi	±(0.05% Span)	-0.008	0.008	0.001 psi				

As Found and As Left Data recorded on May 16, 2016

Temperature 72.1°F / 22.3°C Relative Humidity 31% Temp/RH Asset M1324

Asset	Manufacturer	Model	Description	Cal Date	Due Date	Traceability Numbers
M1186	DH Instruments	PPC4-ui	Pressure Controller	Jan 04, 2016	Jul 31, 2016	5-&M1186-45-1

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

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