



NVLAP LAB CODE 200914-0

CERTIFICATE OF CALIBRATION

Customer: DIGIPAS USA

304 WEST MAIN STREET

#120

AVON, CT 06001

Cert/SO Nbr: 1-CJ3AZ-1-1

Manufacturer: DigiPas USA

Model Nbr: DWL2000XY

Customer Nbr: 1-581697-000

PO Nbr: 92820141

Date Received: February 10, 2014

Date Completed: February 18, 2014

Due Date: February 18, 2015

Calibrated To: Manufacturer Specification

Calibration Proc: 1-AC57667-1 Item Received: In Tolerance

Item Returned: In Tolerance

Unit Barcode: 901B0148415

Description: Digital Level

Serial Nbr: 12A22691

ID Nbr:

For calibration data, see Supplemental Report for SO Nbr 1-CJ3AZ-1-1

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 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, or any agency of the Federal Government.

Transcat calibrations, as applicable, are performed in compliance with the requirements of ISO 9001:2008, ISO TS16949, ANSI/NCSL Z540-1994, and ISO 10012-1992. When specified contractually, the requirements of 10CFR21, 10CFR50 App. B and NQA-1 are also covered.

Traceability includes no less than: An unbroken chain of comparison, realization of SI units, measurement uncertainty, documentation, competence, periodic recalibration, and measurement assurance. 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's) or international standard bodies, or to measurable conditions created in our laboratory, or accepted fundamental and/or natural physical constants, ratio type of calibration, or by comparison to consensus standards. The specific path of traceability for the reported measurement results is maintained at the Transcat facility and is available there for review.

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.

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.

The applied uncertainty is the uncertainty of the calibration process. The Test Uncertainty Ratio (TUR) is calculated as per NCSL International RP-9, section 8.2. 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. Uncertainties have been estimated at a 95 percent confidence level (k=2). Calibration at a 4:1 TUR (or greater) provides reasonable confidence that the instrument is within the stated tolerances. For measuring instruments, in order to consider the contribution to the uncertainty from reproducibility of the unit under test (UUT), add 0.6 of the UUT's least significant digit to the reported uncertainty. For mass calibrations: Conventional mass referenced to 8.0 g/cm².

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.

Notes:

Calibrated At:

35 Vantage Point Dr Rochester, NY 14624 By: Chris Morse

Digitally Signed On February 18, 2014

Facility Responsible:

35 Vantage Point Dr Rochester, NY 14624 585-352-9720 V)

Digitally Signed By Dusty Tank for

Date: February 19, 2014

Frederick Tank Lab Manager



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).

F0013R24 1/27/14

Certificate - Page 1 of 1



CALIBRATION LAB DATA AS FOUND / AS LEFT

Service Order Nbr: 1-CJ3AZ-1-1

Mfg: DigiPas USA

Description: Digital Level

Model: DWL2000XY

Serial: 12A22691

Customer: DIGIPAS USA

Calibrated: February 18, 2014

PO Nbr: 92820141

Date Due: February 18, 2015

ID Nbr:

Service Type: R6

Calibration Proc: 1-AC57667-1

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	8	Uncertainty (k=2; ±)		TUR
Function Check									
Visual Inspection			P	P	P	П			
Warm-up (10-Minutes)			P	Р	Р				
Absolute Level Function			P	Р	Р				
Angle Measure - Single	Axis							4	Accessed the second construction of the second c
Clockwise	0.00°	±(0.02 °)	-0.02	0.02	0.00°	T			
	5.00°	±(0.04 °)	4.96	5.04	5.01 °	\neg			
	15.00°	±(0.04 °)	14.96	15.04	15.00 °	\neg			
	30.00°	±(0.04 °)	29.96	30.04	30.00°	\neg			
	45.00°	±(0.04 °)	44.96	45.04	45.00 °				
	90.00°	±(0.04 °)	89.96	90.04	89.99°	\neg			

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

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



CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	8	Uncertainty (k=2; ±)	TUR
Counter-Clockwise	0.00°	±(0.02 °)	-0.02	0.02	0.00°			
	-5.00°	±(0.04 °)	-5.04	-4.96	-5.01 °			
	-15.00°	±(0.04 °)	-15.04	-14.96	-15.00 °			
	-30.00°	±(0.04 °)	-30.04	-29.96	-30.00 °			
	-45.00°	±(0.04 °)	-45.04	-44.96	-45.00 °			
	-90.00°	±(0.04 °)	-90.04	-89.96	-90.00 °			
180° Rotation	0.00°	±(0.02 °)	-0.02	0.02	0.00°			
Repeatability	0.00°				0.00°			
	0.00°				0.00 °			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
Repeatability (Std Dev)		±(0.01 °)	-0.010	0.010	0.000°			

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

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



CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	0 0 T	Uncertainty (k=2; ±)	TUR
X-Axis	0.00°	±(0.02 °)	-0.02	0.02	0.00°			
	3.00°	±(0.04 °)	2.96	3.04	3.00°			
	-3.00°	±(0.04 °)	-3.04	-2.96	-3.00 °			
Y-Axis	0.00°	±(0.02 °)	-0.02	0.02	0.00°			
	3.00°	±(0.04 °)	2.96	3.04	3.00 °			
	-3.00°	±(0.04 °)	-3.04	-2.96	-3.02 °			
X-Axis Repeatability	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
Repeatability (Std Dev)		±(0.01 °)	-0.010	0.010	0.000°			
Y-Axis Repeatability	0.00°				0.00 °			
	0.00°				0.00°			
	0.00°				0.00°			

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

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



CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	8	Uncertainty (k=2; ±)	TUR
	0.00°				0.00°			
	0.00°				0.00 °			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00°			
	0.00°				0.00 °			
	0.00°				0.00°			
Repeatability (Std Dev)		±(0.01 °)	-0.010	0.010	0.000 °			

As Found and As Left Data recorded on February 18, 2014

Starrett

Temperature: 68.2°F / 20	0.1°C Relative Humidity: 30	70% Temp/RH Asset: 302	5			
Asset	Manufacturer	Model	Description	Cal Date	Due Date	Traceability Numbers
18719	Pratt & Whitney	15 inch	Precision Level, 15 in.	December 04, 2013	June 30, 2014	1-&18719-2014-1
20914	Brown & Sharpe	701-818	Master Granite Square, 9x18x3 Grade AA	June 13, 2013	June 30, 2014	26921

Angle Block Set, 11 pcs.

3148 Tru-Stone 24 in. x 36 in. Surface Plate November 06, 2013 November 30, 2014 53910

AG11C

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point. Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

3037

May 31, 2015

13-06293-A

May 18, 2013