

CERTIFICATE OF CALIBRATION

Customer: DIGIPAS USA
304 WEST MAIN STREET
#120
AVON, CT 06001

Customer Nbr: 1-581697-000
PO Nbr: 92820141
Date Received: February 10, 2014

Cert/SO Nbr: 1-CJ3AZ-1-1
Manufacturer: DigiPas USA
Model Nbr: DWL2000XY

Date Completed: February 18, 2014
Due Date: February 18, 2015

Description: Digital Level
Serial Nbr: 12A22691
ID Nbr:
Unit Barcode: 901B0148415

Calibrated To: Manufacturer Specification
Calibration Proc: 1-AC57667-1
Item Received: In Tolerance
Item Returned: In Tolerance

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 NCCL 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/cm³.

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



Digitally Signed By Dusty Tank for

Date: February 19, 2014

Frederick Tank
Lab Manager

Revision 0

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

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SUPPLEMENTAL REPORT FOR 1-CJ3AZ-1-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Service Order Nbr: 1-CJ3AZ-1-1
Description: Digital Level
Serial: 12A22691
Customer: DIGIPAS USA
Calibrated: February 18, 2014
Date Due: February 18, 2015
Service Type: R6

Mfg: DigIPas USA
Model: DWL2000XY
PO Nbr: 92820141
ID Nbr:
Calibration Proc: 1-AC57667-1

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	$\frac{9}{1}$	Uncertainty (k=2; ±)	TUR
Function Check								
Visual Inspection			P	P	P			
Warm-up (10-Minutes)			P	P	P			
Absolute Level Function			P	P	P			
Angle Measure - Single Axis								
Clockwise	0.00°	±(0.02 °)	-0.02	0.02	0.00 °			
	5.00°	±(0.04 °)	4.96	5.04	5.01 °			
	15.00°	±(0.04 °)	14.96	15.04	15.00 °			
	30.00°	±(0.04 °)	29.96	30.04	30.00 °			
	45.00°	±(0.04 °)	44.96	45.04	45.00 °			
	90.00°	±(0.04 °)	89.96	90.04	89.99 °			

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.

Field not applicable.

SUPPLEMENTAL REPORT FOR 1-CJ3AZ-1-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	$\frac{O}{T}$	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 °				
Angle Measure - Dual Axis									

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.

Field not applicable.

SUPPLEMENTAL REPORT FOR 1-CJ3AZ-1-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	Q _n	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°			
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 0.5 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.

Field not applicable.

Calibration Lab Data Report - Page 3 of 4

Service Order Nbr: 1-CJ3AZ-1-1

SUPPLEMENTAL REPORT FOR 1-CJ3AZ-1-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	0 1	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

Temperature: 68.2°F / 20.1°C Relative Humidity: 30% Temp/RH Asset: 3025

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	1-818719-2014-1
20914	Brown & Sharpe	701-818	Master Granite Square, 9x18x3 Grade AA	June 13, 2013	June 30, 2014	26921
3037	Starrett	AG11C	Angle Block Set, 11 pcs.	May 18, 2013	May 31, 2015	13-06293-A
3148	Tru-Stone	24 in. x 36 in.	Surface Plate	November 06, 2013	November 30, 2014	53910