Digi-Pas®

DigiPas TECHNOLOGIES Inc.
Irvine, CA 92618. USA. www.digipas.com

Affiliated company:
JSB TECH Pte Ltd, 100 Pasir Panjang Road, #06-02, 100 Pasir Panjang, Singapore 118518. Tel: (65) 6397 5028

Certificate of Calibration

Certificate No: D111111F0D01
Manufacturer: JSB TECH Pte Ltd
Model No: DWL2000XY
Serial No: S/N 11A11111

Date: 1st January 2018
Description: Dual Axis Precision Digital Level

Options Installed with Specifications: Temperature Compensated to -10° C to + 50° C

Date of Calibration: 1st January 2018 (in storage: next cal. 5 years)

Temperature: 20° C ±1 °C
Relative Humidity: 55 ± 10 %RH
Procedure: DP_2000XYV1V1/temp 382793093

This certifies that the above product (s) was calibrated in compliance with ISO9001:2015 using applicable *Digi-Pas*® procedures. These calibration procedure and test points are those recommended in the procedure developed by *Digi-Pas*®.

As received: Factory tested

As Shipping Conditions: At the completion of the calibration, measure values were In-Specification at the points tested.

Remarks or Special Requirements: The product (s) bear a CE and/or FCC marks which is tested and certified by TÜV SÜD & PSB to comply with the EC and/or USA directives.

Traceability Information: Supporting document related to traceability is available for review by appointment. This report shall not be reproduced except in full, without prior written approval of the calibration facility.

Calibration Equipment Used:

Model Number	Model Description
SH-240 S3	ESPEC -TAIBAI Temperature & Humidity Chamber
P3– KPI897803	***Digi-Pas***® Reliability, Test & Evaluation Equipment
GT-0401008	Mitutoyo Granite Table (Grade Zero)
MS-308405	Starrett Master Square (Grade AA)
SB-283809	Sine Bar
BG-516-946R-10	Mitutoyo Block Gauge (Grade Zero)
LL000076 & LL001230	***Digi-Pas***® Precision Angle Jigs
ST-2611241	Granite Straight Edges (DIN874)

Test/Inspection Report:

Test Description	Specifications	Results	Judgments
Resolution:	0.01° (±0.175mm/M)	OK	PASS
Accuracy Cal:	± 0.02° at 0° ~ ± 2.00°	± 0.02°	PASS
	± 0.04° for other angles	± 0.04°	PASS
Repeatability:	± 0.01º	± 0.01º	PASS
Symmetrical Check:	± 0.01º	± 0.01º	PASS
Metal Base Surface Flatness:			
Base Surface:	8µm	6µm	PASS
Vertical Surface:	8µm	7µm	PASS
Metal Base Angle:	90º±0.01º	90º±0.01º	PASS
Buzzer (Smart sensor):	>50dBA	63dBA	PASS
LCD display:	TFT LCD	OK	PASS
Operating Temp.:	-10° C to + 50° C	-15° C to + 55° C	PASS
Storage Temp.:	-20° C to + 70°C	-25° C to + 75° C	PASS

The result of this Certificate of Calibration apply only to the item described above. All reported accuracy values are as measured with no reduction by the uncertainty of measurement. Measurement uncertainty is expresses at a confidence level of 95% (coverage factor k=2).

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Certificate No : D111111F0D01
Serial Number : S/N 11A11111

Uncertainty: ±0.02
Units : Degrees

Single Axis:

Description	*Standard*	*Lower Limit*	*Upper Limit*	*As Found*
(+) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.12
	0.50	0.48	0.52	0.51
	1.00	0.98	1.02	0.98
	2.00	1.98	2.02	2.02
	15.00	14.96	15.04	15.02
	30.00	29.96	30.04	30.01
	45.00	44.96	45.04	45.03
	45.50	45.46	45.54	45.50
	46.00	45.96	46.04	46.00
	60.00	59.96	60.04	59.96
	90.00	89.96	90.04	90.01
(-) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.12
	0.50	0.48	0.52	0.51
	1.00	0.98	1.02	0.98
	2.00	1.98	2.02	2.02
	15.00	14.96	15.04	15.01
	30.00	29.96	30.04	30.00
	45.00	44.96	45.04	45.02
	45.50	45.46	45.54	45.51
	46.00	45.96	46.04	46.01
	60.00	59.96	60.04	59.97
	90.00	89.96	90.04	90.00

Dual Axis:

Description	*Standard*	*Lower Limit*	*Upper Limit*	*As Found*
X-axis				
(+) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.10
	0.50	0.48	0.52	0.49
	1.00	0.98	1.02	1.02
	1.20	1.18	1.22	1.20
	1.50	1.48	1.52	1.49
	2.00	1.98	2.02	2.01
	2.50	2.46	2.54	2.47
	3.00	2.96	3.04	3.01
(-) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.11
	0.50	0.48	0.52	0.49
	1.00	0.98	1.02	1.02
	1.20	1.18	1.22	1.19
	1.50	1.48	1.52	1.50
	2.00	1.98	2.02	2.02
	2.50	2.46	2.54	2.48
	3.00	2.96	3.04	3.02
Y-axis				
(+) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.09
	0.50	0.48	0.52	0.48
	1.00	0.98	1.02	0.99
	1.20	1.18	1.22	1.21
	1.50	1.48	1.52	1.51
	2.00	1.98	2.02	1.99
	2.50	2.46	2.54	2.49
	3.00	2.96	3.04	2.97
(-) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.09
	0.50	0.48	0.52	0.48
	1.00	0.98	1.02	0.99
	1.20	1.18	1.22	1.21
	1.50	1.48	1.52	1.50
	2.00	1.98	2.02	2.00
	2.50	2.46	2.54	2.48
	3.00	2.96	3.04	2.98

Checked by: _____
Wu Ping
QA Engineer

Authorized by: _____
Kuu
Manager