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

Date: 2nd July 2024 Certificate No: D1111111B0D11

Manufacturer: JSB TECH Pte Ltd Description: Dual Axis Compact Inclination Sensor Model No: DWL4200XY

Module

Serial No: S/N 11B11111

Options Installed with Specifications: Temperature Compensated to -40° C to +85° C

Date of Calibration: 18th June 2024 (in storage: next cal. 5 years)

Temperature: $20^{\circ} \text{ C} \pm 1 ^{\circ} \text{C}$ **Relative Humidity:** $55 \pm 10 \% RH$

Procedure: DP 4200XYV1V1/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

SH-240 S3 SPEC -TAIBAI Temperature & Humidity Chamber Digi Pas® Reliability, Test & Evaluation Equipment P3-KPI89780

Mitutovo Granite Table (Grade Zero) GT-0401008 Starrett Master Square (Grade AA) MS-308405

SB-283809 Sine Bar

BG-516-946R-10 Mitutoyo Block Gauge (Grade Zero) LL000076 & LL001 Digi-Pas® Precision Angle Jigs

Test/Inspection Report

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Test Description	Specifications	Results	Judgments
Resolution:	0.01° (±0.175mm/M)	OK	PASS
Accuracy Cal:	$\pm~0.02^{\circ}$ at $0^{\circ} \sim \pm 2^{\circ}$	± 0.01°	PASS
	$\pm 0.04^{\circ}$ for other angles	$\pm~0.03^{\circ}$	PASS
Repeatability:	±0.01°	±0.01°	PASS
Symmetrical Check:	±0.01°	±0.01°	PASS
Metal Base Surface Flatnes	ss:		
Base Surface:	8µm	6μm	PASS
Vertical Surface:	8µm	7μm	PASS
Metal Base Angle:	90°±0.01°	90°±0.01°	PASS
Operating Temp.:	-40° C to $+85^{\circ}$ C	-40° C to + 85° 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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Affiliated company: 88850188

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

Certificate No: D1111111B0D11 Uncertainty: ± 0.01 Serial Number: S/N 11B11111 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	0.11
	0.50	0.48	0.52	0.49
	1.00	0.98	1.02	0.99
	2.00	1.98	2.02	2.01
	15.00	14.96	15.04	15.02
	30.00	29.96	30.04	30.02
	45.00	44.96	45.04	45.01
	45.50	45.46	45.54	45.53
	46.00	45.96	46.04	46.03
	60.00	59.96	60.04	59.98
	90.00	89.96	90.04	90.00
(-) SLOPE	0.00	-0.02	0.02	0.00
	0.10	0.08	0.12	0.10
	0.50	0.48	0.52	0.50
	1.00	0.98	1.02	0.99
	2.00	1.98	2.02	2.00
	15.00	14.96	15.04	15.01
	30.00	29.96	30.04	30.03
	45.00	44.96	45.04	45.02
	45.50	45.46	45 .54	45.52
	46.00	45.96	46.04	46.04
	60.00	59.96	60.04	59 .99
	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
	0.1	0.08	0.12	0.09
	0.5	0.48	0.52	0.51
	1	0.98	1.02	1.01
	1.5	1.48	1.52	1.50
	2	1.98	2.02	2.01
	5	4.96	5.04	5.02
	12	11.96	12.04	12.04
	15	14.96	15.04	15.00
(-) SLOPE	0.00	-0.02	0.02	0
	0.1	0.08	0.12	0.08
	0.5	0.48	0.52	0.52
	1	0.98	1.02	1.00
	1.5	1.48	1.52	1.49
	2	1.98	2.02	2.00
	5	4.96	5.04	5.03
	12	11.96	12.04	12.04
	15	14.96	15.04	15.00
Y-axis				
(+) SLOPE	0.00	-0.02	0.02	0
	0.10	0.08	0.12	0.11
	0.50	0.48	0.52	0.50
	1.00	0.98	1.02	1.00
	1.50	1.48	1.52	1.51
	2.00	1.98	2.02	1.99
	5.00	4.96	5.04	4.98
	12.00	11.96	12.04	12.00
	15.00	14.96	15.04	15.02
(-) SLOPE	0.00	-0.02	0.02	0
	0.1	0.08	0.12	0.12
	0.5	0.48	0.52	0.49
	1	0.98	1.02	0.99
	1.5	1.48	1.52	1.49
	2	1.98	2.02	2.02
	5	4.96	5.04	5.00
	12	11.96	12.04	11.97
	15	14.96	15.04	15.04

Checked by: _ QA Enginee

Authorized by: _

QA Manager