



Certificate of Calibration

Certificate No: D11111E0D09
Manufacturer: JSB TECH Pte Ltd
Model No: DWL3000XY
Serial No: S/N 12A11111

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

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_3000XYV1V1/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
P3- KPI897803
GT-0401008
MS-308405
SB-283809
BG-516-946R-10
LL000076 & LL001230
ST-2611241

Model Description

ESPEC -TAIBAI Temperature & Humidity Chamber
Digi-Pas® Reliability, Test & Evaluation Equipment
Mitutoyo Granite Table (Grade Zero)
Starrett Master Square (Grade AA)
Sine Bar
Mitutoyo Block Gauge (Grade Zero)
Digi-Pas® Precision Angle Jigs
Granite Straight Edges (DIN874)

Test/Inspection Report:

Test Description	Specifications	Results	Judgments
Resolution:	0.01° (±0.175mm/M)	OK	PASS
Accuracy Cal:	± 0.01° at 0° ~ ±10° ± 0.03° for other angles	± 0.01° ± 0.03°	PASS PASS
Repeatability:	± 0.01°	± 0.01°	PASS
Symmetrical Check:	± 0.01°	± 0.01°	PASS
Metal Base Surface Flatness:			
Base Surface:	8µm	6µm	PASS
Vertical Surface:	8µm	7µm	PASS
Metal Base Angle:	90°±0.01°	90°±0.01°	PASS
Buzzer (Smart sensor):	>50dBA	65dBA	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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Serial Number : S/N 12A11111

Uncertainty: ±0.02
Units : Degrees

Single Axis:

Description	Standard	Lower Limit	Upper Limit	As Found
(+) SLOPE	0.00	-0.01	0.01	0.00
	0.10	0.09	0.11	0.09
	0.50	0.49	0.51	0.49
	1.00	0.99	1.01	0.99
	2.00	1.99	2.01	2.00
	15.00	14.97	15.03	14.97
	30.00	29.97	30.03	30.03
	45.00	44.97	45.03	44.97
	45.50	45.47	45.53	45.53
	46.00	45.97	46.03	46.00
	60.00	59.97	60.03	59.99
	90.00	89.97	90.03	90.02
(-) SLOPE	0.00	-0.01	0.01	0.00
	0.10	0.09	0.11	0.09
	0.50	0.49	0.51	0.49
	1.00	0.99	1.01	0.99
	2.00	1.99	2.01	2.00
	15.00	14.97	15.03	14.97
	30.00	29.97	30.03	30.03
	45.00	44.97	45.03	44.97
	45.50	45.47	45.53	45.53
	46.00	45.97	46.03	46.01
	60.00	59.97	60.03	59.99
	90.00	89.97	90.03	90.01

Dual Axis:

Description	Standard	Lower Limit	Upper Limit	As Found
X-axis				
(+) SLOPE	0.00	-0.01	0.01	0.00
	0.10	0.09	0.11	0.09
	0.50	0.49	0.51	0.49
	1.00	0.99	1.01	1.01
	1.50	1.49	1.51	1.50
	2.00	1.99	2.01	2.00
	5.00	4.99	5.01	4.99
	12.00	11.97	12.03	11.99
	15.00	14.97	15.03	14.99
(-) SLOPE	0.00	-0.01	0.01	0.00
	0.10	0.09	0.11	0.09
	0.50	0.49	0.51	0.49
	1.00	0.99	1.01	1.01
	1.50	1.49	1.51	1.49
	2.00	1.99	2.01	2.00
	5.00	4.99	5.01	4.99
	12.00	11.97	12.03	11.99
	15.00	14.97	15.03	14.99
Y-axis				
(+) SLOPE	0.00	-0.01	0.01	0.00
	0.10	0.09	0.11	0.11
	0.50	0.49	0.51	0.51
	1.00	0.99	1.01	0.99
	1.50	1.49	1.51	1.50
	2.00	1.99	2.01	2.01
	5.00	4.99	5.01	5.00
	12.00	11.97	12.03	11.99
	15.00	14.97	15.03	15.03
(-) SLOPE	0.00	-0.01	0.01	0.00
	0.10	0.09	0.11	0.11
	0.50	0.49	0.51	0.51
	1.00	0.99	1.01	0.99
	1.50	1.49	1.51	1.49
	2.00	1.99	2.01	2.01
	5.00	4.99	5.01	5.01
	12.00	11.97	12.03	11.98
	15.00	14.97	15.03	15.03

Checked by: _____

Wu Ping
QA Engineer



Authorized by: _____

Kuu
Manager

