

CERTIFICATE OF CALIBRATION

ISSUED BY: **CALIBRATION MAINTENANCE & REPAIR LTD**



0654

DATE OF ISSUE: 4 October 2023

CERTIFICATE NUMBER: **1150884**



Unit 5 Octavian Way
Team Valley Trading Estate
Gateshead
NE11 0HZ

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Page 1 of 3

Approved Signatory

Electronically Authorised Document

- | | |
|--|----------------------------------|
| <input type="checkbox"/> P K CLARK | <input type="checkbox"/> J FRYER |
| <input type="checkbox"/> R J WADE | <input type="checkbox"/> M FOY |
| <input type="checkbox"/> M A FROST | |
| <input checked="" type="checkbox"/> M S PARDOE | |

CUSTOMER

DJB LABCARE LTD
UNIT 12 HOWARD WAY
CROMWELL BUSINESS CENTRE
NEWPORT PAGNELL
BUCKINGHAMSHIRE
MK16 9QS
UNITED KINGDOM

MANUFACTURER

DESCRIPTION

MODEL

SERIAL No.

IDENT No.

DATE RECEIVED

DATE OF CALIBRATION

ORDER No.

STANDARD

TACHOMETER OPTICAL

AT-6

140422854

UNKNOWN

3 OCTOBER 2023

4 OCTOBER 2023

NS23548

INSTRUMENT CONDITION

Adjustments Made
Repairs Made

No
No

ENVIRONMENT

The instrument was placed in the Laboratory environment for a minimum period of 4 hours prior to calibration.

The ambient conditions were: 18 to 23°C and 45 %rh \pm 15 %rh.

STABILITY

The results contained in this Certificate refer to the measurements made at the time of test and not to the instrument's ability to maintain calibration.

PROCEDURE

Measurements were performed in accordance with the in house Laboratory procedure No.1053

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a coverage probability of approximately 95 %. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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Page 2 of 3

Calibration Equipment Used:

Cert Number	Ident Number	Model	Serial Number	Test Equipment Calibration Due
1150572IH	143	33220A	MY44025316	28 Sept 2024
1149140IH	475	A002206.G1	13572091	4 Sept 2024

Notes:

Results relate only to the items calibrated.

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RESULT SHEET 1053-NC-UKAS : STANDARD AT-6 OPTICAL TACHOMETER

AS FOUND

BATTERY REPLACED: NO

The Revolution Per Minute (RPM) was simulated using a precision Frequency Generator with an attached optical light source.

RPM

Range	Simulated	Indicated	Units	Indicated Deviation	Measurement Uncertainty ±
2 to 99999RPM	600.000	600.0	RPM	0.000	0.064
	1000.00	1000	RPM	0.00	0.58
	2500.00	2500	RPM	0.00	0.58
	5000.00	5000	RPM	0.00	0.58
	7500.00	7500	RPM	0.00	0.58
	9999.85	10000	RPM	0.15	0.58
	14999.58	15000	RPM	0.42	0.58
	19999.26	20000	RPM	0.74	0.58
	24998.90	25000	RPM	1.10	0.58
	29998.56	30000	RPM	1.44	0.58

Manufacturer stated Accuracy: $\pm(0.05\%+1 \text{ digit})$

COMMENTS:

TEST ENGINEER: M Foy

DATE: 04th October 2023