CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 29 November 2022 CERTIFICATE NUMBER: **1136397**

0654

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Approved Signatory
Electronically Authorised Document

- ☐ P K CLARK
- ☐ J FRYER
- ☐ R J WADE
- ☐ M FOY
- ☐ M A FROST
- ☒ M S PARDOE

CUSTOMER

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

MANUFACTURER	**STANDARD**
DESCRIPTION	**TACHOMETER OPTICAL**
MODEL	**AT-6**
SERIAL No.	**12078442**
IDENT No.	**UNKNOWN**
DATE RECEIVED	**24 NOVEMBER 2022**
DATE OF CALIBRATION	**29 NOVEMBER 2022**
ORDER No.	**NS23971**

INSTRUMENT CONDITION

Adjustments Made	No
Repairs Made	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 ± 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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Calibration Equipment Used:

Cert Number	Ident Number	Model	Serial Number	Test Equipment Calibration Due
M2988	475	A002206.G1	13431078	8 Sept 2023
1132675IH	143	33220A	MY44025316	30 Sept 2023

Notes:
Results relate only to the items calibrated.

Measurement Uncertainties

These are our best measurement capabilities with the listed test equipment, any uncertainties shown on the result sheet take in to account the resolution of the instrument being calibrated.

Parameter	Range	Uncertainty
Revolutions Per Minute	6RPM to 600RPM	0.064RPM
	600RPM to 6000RPM	0.065RPM
	6000RPM to 120000RPM	0.066RPM

Parameter	Range	Uncertainty

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Parameter	Range	Uncertainty	Parameter	Range	Uncertainty

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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
	9999.87	10000	RPM	0.13	0.58
	14999.56	15000	RPM	0.44	0.58
	19999.28	20000	RPM	0.72	0.58
	24998.95	25000	RPM	1.05	0.58
	29998.66	30000	RPM	1.34	0.58

Manufacturer stated Accuracy: ±(0.05%+1 digit)

COMMENTS:

TEST ENGINEER: M Foy **DATE: 29th November 2022**