

# CERTIFICATE OF CALIBRATION

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



0654

DATE OF ISSUE: 10 October 2024

CERTIFICATE NUMBER: **1169118**



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

Tel: +44 (0)191 4875951

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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

### DESCRIPTION

### MODEL

### SERIAL No.

### IDENT No.

### DATE RECEIVED

### DATE OF CALIBRATION

### ORDER No.

## STANDARD

### TACHOMETER OPTICAL

### AT-6

### 200552102

### UNKNOWN.

### 4 OCTOBER 2024

### 9 OCTOBER 2024

### NS23936

## 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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## **Calibration Equipment Used:**

<b>Cert Number</b>	<b>Ident Number</b>	<b>Model</b>	<b>Serial Number</b>	<b>Test Equipment Calibration Due</b>
1168575IH	143	33220A	MY44025316	3 Oct 2025
1149140IH	475	A002206.G1	13572091	3 Sep 2026

## **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 $\pm$
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
	9999.88	10000	RPM	0.12	0.58
	14999.55	15000	RPM	0.45	0.58
	19999.31	20000	RPM	0.69	0.58
	24999.00	25000	RPM	1.00	0.58
	29998.66	30000	RPM	1.34	0.58

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

### **COMMENTS:**

**TEST ENGINEER: M Foy**

**DATE: 09th October 2024**