

# CERTIFICATE OF CALIBRATION

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



DATE OF ISSUE: 10 October 2024      CERTIFICATE NUMBER: **1169117**

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

### DESCRIPTION

### MODEL

### SERIAL No.

### IDENT No.

### DATE RECEIVED

### DATE OF CALIBRATION

### ORDER No.

## STANDARD

### TACHOMETER OPTICAL

### AT-6

### 200552064

### 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 ± 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<br/>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 ± |
|------------------|-----------|-----------|-------|---------------------|---------------------------|
| 2 to<br>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                      |
|                  | 9999.98   | 10000     | RPM   | 0.02                | 0.58                      |
|                  | 14999.65  | 15000     | RPM   | 0.35                | 0.58                      |
|                  | 19999.43  | 20000     | RPM   | 0.57                | 0.58                      |
|                  | 24999.13  | 25000     | RPM   | 0.87                | 0.58                      |
|                  | 29998.84  | 30000     | RPM   | 1.16                | 0.58                      |

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

### **COMMENTS:**

**TEST ENGINEER: M Foy**

**DATE: 09th October 2024**