

# CERTIFICATE OF CALIBRATION

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



0654

DATE OF ISSUE: 7 October 2021

CERTIFICATE NUMBER: **1117612**



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

- |  |                                  |
|--|----------------------------------|
| <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

140422874

UNKNOWN

6 OCTOBER 2021

7 OCTOBER 2021

NS23393

## 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: 22°C ± 3°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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## **INSTRUMENTS USED** **EQUIPMENT**

Agilent 33220A  
Trimble A002206.G1

**SERIAL No**  
MY44025316  
13431078

<b>CERTIFICATE No</b>	<b>CAL DUE</b>
M2991	08 Oct 2021
M2988	08 Sep 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.

<b>Parameter</b>	<b>Range</b>	<b>Uncertainty</b>	<b>Parameter</b>	<b>Range</b>	<b>Uncertainty</b>
Revolutions Per Minute	6RPM to 600RPM	0.064RPM			
	600RPM to 6000RPM	0.065RPM			
	6000RPM to 120000RPM	0.066RPM			

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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 $\pm$
2 to 99999RPM	600	600.0	RPM	0.000	0.064
	1000	1000	RPM	0.00	0.58
	2500	2500	RPM	0.00	0.58
	5000	5000	RPM	0.00	0.58
	7500	7500	RPM	0.00	0.58
	10000	10000	RPM	0.00	0.58
	15000	15000	RPM	0.00	0.58
	20000	20000	RPM	0.00	0.58
	25000	25000	RPM	0.00	0.58
	30000	30000	RPM	0.00	0.58

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

### **COMMENTS:**

**TEST ENGINEER: M Foy**

**DATE: 07th October 2021**