

# CERTIFICATE OF CALIBRATION

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



0654

DATE OF ISSUE: 17 October 2022

CERTIFICATE NUMBER: **1133788**



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

### 200552135

### UNKNOWN

### 7 OCTOBER 2022

### 17 OCTOBER 2022

### NS23898

## 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:

<u>Cert Number</u>	<u>Ident Number</u>	<u>Model</u>	<u>Serial Number</u>	<u>Test Equipment Calibration Due</u>
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.

<u>Parameter</u>	<u>Range</u>	<u>Uncertainty</u>	<u>Parameter</u>	<u>Range</u>	<u>Uncertainty</u>
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	600.000	600.0	RPM	0.000	0.064
	1000.00	1000	RPM	0.00	0.58
	2500.00	2500	RPM	0.00	0.58
	4999.80	5000	RPM	0.20	0.58
	7499.94	7500	RPM	0.06	0.58
	9999.78	10000	RPM	0.22	0.58
	14999.40	15000	RPM	0.60	0.58
	19999.02	20000	RPM	0.98	0.58
	24998.70	25000	RPM	1.30	0.58
	29998.38	30000	RPM	1.62	0.58

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

### COMMENTS:

**TEST ENGINEER: J Fryer**

**DATE: 17th October 2022**