

# CERTIFICATE OF CALIBRATION

ISSUED BY: **M K I S** CALIBRATION COMPANY

DATE OF ISSUE: 18 October 2018

CERTIFICATE NUMBER: 3111



0236

## STANDARDS LABORATORY

# MKIS



Calibration Company

10 Potters Lane  
Kiln Farm

Milton Keynes  
MK11 3HE

Tel: 01908 568250  
Fax: 01908 564661

Page 1 of pages

Approved  
Signatories

A.J.Cox

R Younger

C Kemp

Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078389
Order Number:	NS 21935
Customer:	DJB Labcare
Location:	Newport Pagnall
Date Received:	16 October 2018
Date Calibrated:	18 October 2018

The instrument was kept in the laboratory environment for 24 hours, to allow the instrument to stabilise, prior to the tests being carried out.

The ambient temperature and relative humidity throughout the test was  $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$  and  $50\% \pm 20\%$  respectively.

The uncertainties reported refer to the applied and obtained values only, with no account being taken of the instruments ability to maintain its calibration.

Remarks: No adjustments were made.

**MKIS UKAS Calibration Procedures Used:- 5 (5.6)**

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0236

Certificate Number: 3111

PAGE 2 OF 2 PAGES

Applied Value	Equivalent Value	Indicated Value
99.996 ms	600.02 RPM	600.0 RPM
59.995 ms	1000.1 RPM	1000 RPM
24.005 ms	2499.5 RPM	2499 RPM
12.000 3 ms	4998.7 RPM	4999 RPM
8.000 10 ms	7499.9 RPM	7500 RPM
5.999 92 ms	10 000.1 RPM	10 000 RPM
4.000 07 ms	14 999.7 RPM	15 000 RPM
3.000 05 ms	19 999.7 RPM	20 000 RPM
2.400 08 ms	24 999.2 RPM	24 999 RPM
2.000 04 ms	29 999.4 RPM	29 999 RPM

The measurement uncertainties were:

Time  $\pm 0.1 \text{ RPM} + 1 \text{ LSD}$

END

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.