

# CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 18 October 2018

CERTIFICATE NUMBER: 3110



0236

STANDARDS LABORATORY

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# MKIS

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Signature 

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078435
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)**

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UKAS Accredited Calibration Laboratory No. 0236

Certificate Number: 3110

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Applied Value	Equivalent Value	Indicated Value
99.993 ms	600.04 RPM	600.0 RPM
59.997 ms	1000.05 RPM	1000 RPM
24.005 ms	2499.5 RPM	2499 RPM
12.000 3 ms	4998.7 RPM	4999 RPM
8.000 08 ms	7499.9 RPM	7500 RPM
5.999 95 ms	10 000.1 RPM	10 000 RPM
4.000 04 ms	14 999.8 RPM	15 000 RPM
3.000 06 ms	19 999.6 RPM	20 000 RPM
2.400 07 ms	24 999.3 RPM	24 999 RPM
2.000 08 ms	29 998.8 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.