

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 16 October 2017

CERTIFICATE NUMBER: 3013



0236

STANDARDS LABORATORY



Calibration Company

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Approved
Signatories

R Younger
C Kemp

Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078446
Order Number:	Ref :- Martin Paragreen
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	12 October 2017
Date Calibrated:	13 October 2017

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 indicated values only with no account being taken of the instruments ability to maintain its calibration.

Remarks: No adjustments were made.

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UKAS Accredited Calibration Laboratory No. 0236

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Applied Value	Equivalent Value	Indicated Value
99.994 ms	600.04 RPM	600.0 RPM
59.998 ms	1000.0 RPM	1000 RPM
24.007 ms	2499.3 RPM	2499 RPM
12.000 8 ms	4999.7 RPM	5000 RPM
8.000 22 ms	7499.8 RPM	7500 RPM
6.000 04 ms	9 999.9 RPM	10 000 RPM
4.000 05 ms	14 999.8 RPM	15 000 RPM
3.000 08 ms	19 999.5 RPM	19 999 RPM
2.400 06 ms	24 999.4 RPM	24 999 RPM
1.999 97 ms	30 000.4 RPM	30 001 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.
