

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 16 October 2017

CERTIFICATE NUMBER: 3015



0236

STANDARDS LABORATORY



10 Potters Lane
Kiln Farm

Milton Keynes
MK11 3HE

Tel: 01908 568250
Fax: 01908 564661

Page 1 of 2 pages

Approved
Signatories

R Younger
C Kemp

Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078389
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.

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0236

Certificate Number: 3015

PAGE 2 OF 2 PAGES

Applied Value	Equivalent Value	Indicated Value
99.994 ms	600.04 RPM	600.0 RPM
59.995 ms	1000.8 RPM	1000 RPM
24.004 ms	2499.6 RPM	2500 RPM
12.001 2 ms	4999.5 RPM	4999 RPM
8.000 60 ms	7499.4 RPM	7499 RPM
5.999 95 ms	10 000.1 RPM	10 000 RPM
4.000 03 ms	14 999.9 RPM	15 000 RPM
3.000 08 ms	19 999.5 RPM	20 000 RPM
2.399 95 ms	25 000.5 RPM	25 001 RPM
1.999 92 ms	30 001.2 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.