

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 30 May 2017

CERTIFICATE NUMBER: 2990



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:	12078449
Order Number:	NS 21153
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	25 May 2017
Date Calibrated:	30 May 2017

The instrument was kept in the laboratory environment for 2 days , 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: 2990

PAGE 2 OF 2 PAGES

Applied Value	Equivalent Value	Indicated Value
120.003 ms	499.98 RPM	500.0 RPM
59.996 ms	1000.1 RPM	1000 RPM
23.996 ms	2500.4 RPM	2500 RPM
12.000 ms	5000.0 RPM	5000 RPM
8.000 5 ms	7499.5 RPM	7500 RPM
5.999 8 ms	10000.3 RPM	10 000 RPM
2.999 95 ms	20000.3 RPM	20 000 RPM
2.000 07 ms	29 998.9 RPM	29 999 RPM
1.499 94 ms	40000.2 RPM	40 000 RPM
1.200 08 ms	49 996.7 RPM	49 997 RPM
1.000 01 ms	59 999.4 RPM	59 999 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.