

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 25 September 2017

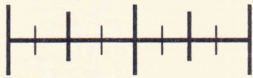
CERTIFICATE NUMBER: 3012



0236

STANDARDS LABORATORY

M K I S



Calibration Company

10 Potters Lane
Kiln Farm

Milton Keynes
MK11 3HE

Tel: 01908 568250
Fax: 01908 564661

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Approved
Signatories

R Younger
C Kemp

Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	140422841
Order Number:	NS21327
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	12 September 2017
Date Calibrated:	25 September 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.

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UKAS Accredited Calibration Laboratory No. 0236

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Applied Value	Equivalent Value	Indicated Value
100.008 ms	599.95 RPM	600.0 RPM
59.994 ms	1000.1 RPM	1000 RPM
24.007 ms	2499.3 RPM	2499 RPM
12.002 ms	4999.2 RPM	4999 RPM
8.0008 ms	7499.3 RPM	7499 RPM
5.999 50 ms	10 000.8 RPM	10 001 RPM
4.000 07 ms	14 999.7 RPM	15 000 RPM
2.999 91 ms	20 000.6 RPM	20 001 RPM
2.3999 92 ms	25 000.8 RPM	25 001 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.