

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 30 May 2017

CERTIFICATE NUMBER: 2991



0236

STANDARDS LABORATORY

M K I S



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Approved
Signatories

R Younger
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Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078442
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.

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UKAS Accredited Calibration Laboratory No. 0236

Certificate Number: 2991

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Applied Value	Equivalent Value	Indicated Value
120.004 ms	499.98 RPM	500.0 RPM
59.994 ms	1000.1 RPM	1000 RPM
23.997 ms	2500.3 RPM	2500 RPM
12.004 ms	4998.3 RPM	4998 RPM
8.000 4 ms	7499.6 RPM	7500 RPM
6.000 0 ms	10000.0 RPM	10 000 RPM
2.999 95 ms	20000.3 RPM	20 000 RPM
2.000 06 ms	29 999.1 RPM	29 999 RPM
1.499 98 ms	40000.5 RPM	40 001 RPM
1.200 07 ms	49 997.1 RPM	49 997 RPM
1.000 04 ms	59997.6 RPM	59 998 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.
