

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 13 September 2016

CERTIFICATE NUMBER: 2931



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:	140422874
Order Number:	NS 20800
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	08 September 2016
Date Calibrated:	13 September 2016

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
100.003 ms	599.98 RPM	600.0 RPM
60.004 ms	999.93 RPM	1000 RPM
23.998 ms	2500.2 RPM	2500 RPM
12.005 ms	4997.9 RPM	4998 RPM
7.998 5 ms	7501.4 RPM	7501 RPM
6.000 3 ms	9999.5 RPM	9999 RPM
4.000 08 ms	14999.7 RPM	15 000 RPM
2.999 93 ms	20000.5 RPM	20 001 RPM
2.400 05 ms	24999.5 RPM	25 000 RPM
2.000 03 ms	29999.6 RPM	30 000 RPM
1.499 97 ms	40000.1 RPM	40 000 RPM
1.199 97 ms	50000.1 RPM	50 000 RPM
1.000 05 ms	59997.0 RPM	59 997 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.