

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 13 September 2016

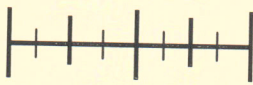
CERTIFICATE NUMBER: 2932



0236

STANDARDS LABORATORY

M K I S



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Approved
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Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	140422854
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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Certificate Number: 2932

UKAS Accredited Calibration Laboratory No. 0236

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Applied Value	Equivalent Value	Indicated Value
100.004 ms	599.97 RPM	600.0 RPM
60.006 ms	999.90 RPM	1000 RPM
24.005 ms	2499.5 RPM	2500 RPM
12.005 ms	4997.9 RPM	4998 RPM
7.997 0 ms	7502.8 RPM	7503 RPM
5.999 4 ms	10001.0 RPM	10 001 RPM
4.000 10 ms	14999.6 RPM	15 000 RPM
3.000 08 ms	19999.5 RPM	20 000 RPM
2.400 08 ms	24999.2 RPM	24 999 RPM
2.000 07 ms	29.998.9 RPM	29 999 RPM
1.499 96 ms	40001.0 RPM	40 001 RPM
1.200 04 ms	49998.3 RPM	49 998 RPM
1.000 10 ms	59994.0 RPM	59 994 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.