

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 22 September 2016

CERTIFICATE NUMBER: 2934



0236

STANDARDS LABORATORY

MKIS



Calibration Company

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Approved
Signatories

R Younger
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Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078389
Order Number:	NS 20815
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	20 September 2016
Date Calibrated:	22 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
99.995 ms	600.03 RPM	600.0 RPM
60.008 ms	999.87 RPM	999.9 RPM
24.008 ms	2499.2 RPM	2499 RPM
12.002 ms	4999.2 RPM	4999 RPM
7.999 7 ms	7500.3 RPM	7500 RPM
6.000 5 ms	9999.2 RPM	9999 RPM
3.999 90 ms	15000.4 RPM	15 000 RPM
3.000 06 ms	19999.6 RPM	20 000 RPM
2.400 10 ms	24998.9 RPM	24 999 RPM
2.000 05 ms	29999.3 RPM	29 999 RPM
1.500 07 ms	39999.8 RPM	40 000 RPM
1.200 08 ms	49996.7 RPM	49 997 RPM
1.000 07 ms	59995.8 RPM	59 996 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.