

# CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 22 September 2016

CERTIFICATE NUMBER: 2933



0236

## STANDARDS LABORATORY



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Page 1 of 2 pages

Approved  
Signatories

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Signature

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	12078446
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

Certificate Number: 2933

PAGE 2 OF 2 PAGES

Applied Value	Equivalent Value	Indicated Value
99.998 ms	600.0 RPM	600.0 RPM
60.005 ms	999.92 RPM	1000 RPM
24.008 ms	2499.2 RPM	2499 RPM
12.005 ms	4997.9 RPM	4998 RPM
8.000 2 ms	7499.8 RPM	7500 RPM
6.000 3 ms	9999.5 RPM	10 000 RPM
3.999 98 ms	15000.1 RPM	15 000 RPM
3.000 06 ms	19999.6 RPM	20 000 RPM
2.400 07 ms	24999.3 RPM	24 999 RPM
2.000 03 ms	29999.6 RPM	30 000 RPM
1.500 08 ms	39997.9 RPM	39 998 RPM
1.200 05 ms	49997.9 RPM	49 998 RPM
1.000 03 ms	59998.2 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.