

# CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE:- 13 September 2018

CERTIFICATE NUMBER: - 3093



0236

## STANDARDS LABORATORY



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Approved  
Signatories

R Younger   
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Signature

Checked

Equipment Description:	Optical Tachometer
Manufacturer:	Standard
Type:	AT-6
Serial Number:	11119364
Order Number:	NS21869
Customer:	DJB Labcare
Location:	Newport Pagnall
Date Received:	07 September 2018
Date Calibrated:	12 September 2018

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 made.**

**Calibration Procedures used:- MKIS UKAS 5 (5.6)**

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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
60.005 ms	999.92 RPM	1000 RPM
24.004 ms	2499.6 RPM	2499 RPM
12.000 6 ms	4999.7 RPM	5000 RPM
8.000 04 ms	7499.9 RPM	7500 RPM
5.999 92 ms	10 000.1 RPM	10 000 RPM
4.000 10 ms	14 999.6 RPM	14 999 RPM
2.999 94 ms	20 000.4 RPM	20 000 RPM
2.400 07 ms	24 999.3 RPM	24 999 RPM
2.000 09 ms	29 998.6 RPM	29 999 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.