

CERTIFICATE OF CALIBRATION

ISSUED BY:- **MKIS** CALIBRATION COMPANY

DATE OF ISSUE:- 27 September 2018

CERTIFICATE NUMBER: - 3099



0236

STANDARDS LABORATORY



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Approved
Signatories

R Younger
C Kemp

Signature

Checked

Equipment Description:

Optical Tachometer

Manufacturer:

Standard

Type:

AT-6

Serial Number:

170205746

Order Number:

NS21897

Customer:

DJB Labcare

Location:

Newport Pagnall

Date Received:

24 September 2018

Date Calibrated:

27 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

Certificate Number: 3099

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Applied Value	Equivalent Value	Indicated Value
99.997 ms	600.02 RPM	600.0 RPM
59.997 ms	1000.05 RPM	1000 RPM
24.006 ms	2499.4 RPM	2499 RPM
12.000 9 ms	4999.6 RPM	5000 RPM
7.999 86 ms	7500.1 RPM	7500 RPM
5.999 92 ms	10 000.1 RPM	10 000 RPM
4.000 07 ms	14 999.7 RPM	15 000 RPM
3.000 05 ms	19 999.7 RPM	20 000 RPM
2.400 04 ms	24 999.9 RPM	25 000 RPM
2.000 09 ms	29 998.6 RPM	29 998 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.