

CERTIFICATE OF CALIBRATION

ISSUED BY:- **MKIS** CALIBRATION COMPANY

DATE OF ISSUE:- 13 September 2018

CERTIFICATE NUMBER: - 3092



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:

140422874

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
100.005 ms	599.97 RPM	600.0 RPM
60.007 ms	999.88 RPM	1000 RPM
23.998 ms	2500.2 RPM	2500 RPM
12.000 8 ms	4999.7 RPM	5000 RPM
8.000 07 ms	7499.9 RPM	7500 RPM
6.000 03 ms	9999.9 RPM	10 000 RPM
4.000 08 ms	14 999.7 RPM	15 000 RPM
3.000 05 ms	19 999.7 RPM	20 000 RPM
2.400 08 ms	24 999.2 RPM	24 999 RPM
2.000 06 ms	29 999.1 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.