

CERTIFICATE OF CALIBRATION

ISSUED BY:- **MKIS** CALIBRATION COMPANY

DATE OF ISSUE:- 27 September 2018

CERTIFICATE NUMBER: - 3097



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:

140422854

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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Certificate Number: 3097

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
59.997 ms	1000.05 RPM	1000 RPM
24.002 ms	2499.8 RPM	2500 RPM
11.999 ms	5000.4 RPM	5000 RPM
8.000 05 ms	7499.9 RPM	7500 RPM
6.000 05 ms	9 999.9 RPM	10 000 RPM
4.000 07 ms	14 999.7 RPM	15 000 RPM
2.999 98 ms	20.000.1 RPM	20 000 RPM
2.399 92 ms	25 000.8 RPM	25 001 RPM
2.000 05 ms	29 999.2 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.