

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE:- 27 September 2018

CERTIFICATE NUMBER: - 3098



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:

140422841

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: 3098

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| Applied Value | Equivalent Value | Indicated Value |
|---------------|------------------|-----------------|
| 100.003 ms | 599.98 RPM | 600.0 RPM |
| 60.005 ms | 999.92 RPM | 1000 RPM |
| 23.996 ms | 2500.4 RPM | 2500 RPM |
| 12.000 7 ms | 4999.7 RPM | 5000 RPM |
| 8.000 09 ms | 7499.9 RPM | 7500 RPM |
| 6.000 07 ms | 9 999.9 RPM | 10 000 RPM |
| 3.999 91 ms | 15 000.3 RPM | 15 000 RPM |
| 3.000 04 ms | 19 999.7 RPM | 20 000 RPM |
| 2.400 06 ms | 24 999.4 RPM | 24 999 RPM |
| 2.000 08 ms | 29 998.8 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.