

CERTIFICATE OF CALIBRATION

ISSUED BY:- **MKIS** CALIBRATION COMPANY

DATE OF ISSUE:- 12 June 2018

CERTIFICATE NUMBER:- 3076



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:	12078449
Order Number:	NS21729
Customer:	DJB Labcare
Location:	Newport Pagnall
Date Received:	11 June 2018
Date Calibrated:	12 June 2018

The instrument was kept in the laboratory environment for 24 hours , 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	599.70 RPM	599.7 RPM
60.004 ms	999.93 RPM	1000 RPM
23.992 ms	2500.8 RPM	2501 RPM
11.999 4 ms	5000.2 RPM	5000 RPM
7.999 80 ms	7500.2 RPM	7500 RPM
6.000 10 ms	9999.8 RPM	10 000 RPM
4.000 09 ms	14 999.7 RPM	15 000 RPM
3.000 10 ms	19 999.3 RPM	19 999 RPM
2.399 91 ms	25 000.9 RPM	25 001 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.