## CERTIFICATE OF CALIBRATION

ISSUED BY: MKIS CALIBRATION COMPANY

DATE OF ISSUE: 18 October 2018

CERTIFICATE NUMBER: 3112



STANDARDS LABORATORY

MKIS Calibration Company

Date Calibrated:

10 Potters Lane Kiln Farm

Milton Keynes MK11 3HE

Tel: 01908 568250 Fax: 01908 564661 Page 1 of pages Approved A.J.Cox Signatories R Younger C Kemp Signature

Optical Tachometer **Equipment Description:** 

Standard Manufacturer:

**AT-6** Type:

12078446 Serial Number: Order Number: NS 21935 DJB Labcare Customer:

Location: Newport Pagnall 16 October 2018 Date Received: 18 October 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°C ± 2°C and  $50\% \pm 20\%$  respectively.

The uncertainties reported refer to the applied and obtained values only, with no account being taken of the instruments ability to maintain its calibration.

Remarks: No adjustments were made.

MKIS UKAS Calibration Procedures Used: 5 (5.6)

## **CERTIFICATE OF CALIBRATION**

Certificate Number: 3112

UKAS Accredited Calibration Laboratory No. 0236

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Applied Val	ue Equivalent	Value	Indicated	Value
100.003	ms 599.98	RPM	600.0	RPM
59.994 1	ms 1000.1	RPM	1000	RPM
24.006 1	ms 2499.4	RPM	2499	RPM
12.000 0 1	ms 5000.0	RPM	5000	RPM
8.000 09 1	ms 7499.9	RPM	7500	RPM
5.999 92 1	ms 10 000.1	RPM	10 000	RPM
4.000 08 1	ms 14 999.7	RPM	15 000	RPM
3.000 09 1	ms 19 999.4	RPM	19 999	RPM
2.399 89 1	ms 25 001.1	RPM	25 001	RPM
2.000 10	ms 29 998.5	RPM	29 999	RPM

The measurement uncertainties were:

Time

 $\pm$  0.1 RPM + 1 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.