CERTIFICATE OF CALIBRATION

ISSUED BY: MKIS CALIBRATION COMPANY

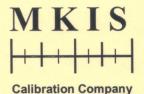
DATE OF ISSUE: 22 September 2016

CERTIFICATE NUMBER: 2934



0236

STANDARDS LABORATORY



10 Potters Lane Kiln Farm

Milton Keynes MK11 3HE Tel: 01908 568250 Fax: 01908 564661 Page 1 of 2 pages
Approved
Signatories
Signature

R Younger C C Kemp

Equipment Description: Optical Tachometer

Manufacturer: Standard

Type: AT-6

Serial Number: 12078389
Order Number: NS 20815

Customer: D J B Labcare

Location: Newport Pagnell

Date Received: 20 September 2016

Date Calibrated: 22 September 2016

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 $20^{\circ}C \pm 2^{\circ}C$ 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 were made.

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0236

Certificate Number: 2934

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Applied Value	Equivalent Value	Indicated Value
99.995 ms	600.03 RPM	600.0 RPM
60.008 ms	999.87 RPM	999.9 RPM
24.008 ms	2499.2 RPM	2499 RPM
12.002 ms	4999.2 RPM	4999 RPM
7.999 7 ms	7500.3 RPM	7500 RPM
6.000 5 ms	9999.2 RPM	9999 RPM
3.999 90 ms	15000.4 RPM	15 000 RPM
3.000 06 ms	19999.6 RPM	20 000 RPM
2.400 10 ms	24998.9 RPM	24 999 RPM
2.000 05 ms	29999.3 RPM	29 999 RPM
1.500 07 ms	39999.8 RPM	40 000 RPM
1.200 08 ms	49996.7 RPM	49 997 RPM
1.000 07 ms	59995.8 RPM	59 996 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.