

# CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 01 October 2010

CERTIFICATE NUMBER: 2377



0236

## STANDARDS LABORATORY

# MKIS



Calibration Company

10 Potters Lane  
Kiln Farm

Milton Keynes  
MK11 3HE

Tel: 01908 568250  
Fax: 01908 564661

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Approved  
Signatories

R Younger   
C Kemp

Signature

Equipment Description:	Tachometer
Manufacturer:	Digital
Type:	DT 2243C
Serial Number:	S659142
Order Number:	17035
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	29 September 2010
Date Calibrated:	30 September 2010

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 values only with no account being taken of the instruments ability to maintain its calibration.

Remarks: No adjustments were made.

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UKAS Accredited Calibration Laboratory No. 0236

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Applied Value	Equivalent Value	Indicated Value
100.18 ms	598.92 RPM	598.9 RPM
60.017 ms	999.72 RPM	999.7 RPM
30.002 ms	1999.87 RPM	2000 RPM
20.002 ms	2999.7 RPM	3000 RPM
15.001 ms	3999.7 RPM	3999 RPM
12.008 ms	4996.7 RPM	4997 RPM
9.999 7 ms	6000.2 RPM	6000 RPM
7.500 10 ms	7999.9 RPM	8000 RPM
5.999 50 ms	10 000.8 RPM	10 000 RPM
3.000 41 ms	19 997.3 RPM	19 997 RPM
1.500 12 ms	39 996.8 RPM	39 997 RPM
1.000 05 ms	59 997.0 RPM	59 998 RPM

The measurement uncertainties were:

Time  $\pm 0.01\% + 1 \text{ LSD}$

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.

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