

CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 24 February 2016 CERTIFICATE No: 386348




Lambda
CALIBRATION LTD

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Page 1 of 2

APPROVED SIGNATORY


A Kelly D Pilkington
D Whalley C Reed R Armitage

Customer: DJB Labcare Ltd
Address: 20 Howard Way, Interchange Park,
Milton Keynes
MK16 9QS

Item Number: 06019369 (4046)
Description: Digital Tachometer
Model/Range: ST-6234B
Manufacturer: Standard
Date of Cal: 24 Feb 2016
Calibrated by: Chris Reed
Procedure Name: Standard, Digital Tachometer, ST-6234B (DJB Labcare)
Rev/Basis: 01:E-1000
Temp/Humidity: 20.0°C ± 2°C <80%rh

The Results on the following pages are: As Found

All Measurements are Traceable to National Standards.

Note 1: The unit under test was calibrated using a multifunction calibrator.
Note 2: Specification for this instrument was not available at the time of calibration. Therefore the results reported on this certificate are 'As Found'.
Note 3: Values quoted in the "UUT Indicated Value" column are not necessarily quoted to the same resolution as the actual displayed value on the UUT.
Note 4: Any supplied test leads have been checked as part of the Visual/Operational test but have not been used during calibration.
Note 5: Temperature indicating instruments that contain an internal reference junction for use with thermocouples are calibrated with the reference junction enabled.

Engineers' Notes:

Standard(s) Used: LMMC-02 ✓ / LMMC-04 / LMMC-10 / LMMC-14

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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UKAS ACCREDITED CALIBRATION LABORATORY No: 0495

CERTIFICATE No:

386348

Page 2 of 2

Parameter	UUT Indicated Value	Applied Value
Visual/Operational Test		
Result of Operator Evaluation		PASS
Various frequencies were applied from a multi-function calibrator to the tachometer optical calibration box, LSTR-06, the output of which was measured with the UUT. The results were as follows:		
RPM		
	600.0rpm	600.0
	1000.00rpm	999.80
	2000.0rpm	1999.0
	3000.00rpm	3000.00
	4000.00rpm	4000.00
	5000.0rpm	5000.0
	6000.00rpm	6000.00
	7000.0rpm	7000.0
	8000.0rpm	8000.0
	9000.0rpm	9001.0
	10000.0rpm	10000.0
	15000.0rpm	15001.0
	20000.0rpm	19998.0
	30000.0rpm	30003.0
	50000.0rpm	50000.0
	80000.0rpm	80005.0

End of Calibration Data

Estimated Uncertainty of Measurement:

Frequency

0.2Hz to 250MHz: +/- (0.29ppm + 2 LSD)