CERTIFICATE OF CALIBRATION ISSUED BY: CALIBRATION MAINTENANCE & REPAIR LTD



DATE OF ISSUE: 30 November 2022 CERTIFICATE NUMBER: 1136398



Unit 5 Octavian Way Team Valley Trading Estate Gateshead NE11 0HZ

Tel: +44 (0)191 4875951

CUSTOMER			
DJB LABCARE LTD UNIT 12 HOWARD WAY CROMWELL BUSINESS CENTRE	MANUFACTURER	STANDARD	
	DESCRIPTION	TACHOMETER OPTICAL	
NEWPORT PAGNELL	MODEL	AT-6	
DJB LABCARE LTD UNIT 12 HOWARD WAY CROMWELL BUSINESS CENTRE	SERIAL No.	12078435	
	IDENT No.	UNKNOWN	
	DATE RECEIVED	24 NOVEMBER 2022	
	DATE OF CALIBRATION	29 NOVEMBER 2022	
	ORDER No.	NS23971	
INSTRUMENT CONDITION			
Adjustments Made	No		
Repairs Made	No		

ENVIRONMENT

The instrument was placed in the Laboratory environment for a minimum period of 4 hours prior to calibration.

The ambient conditions were: 18 to 23°C and 45 %RH ± 15 %RH.

STABILITY

The results contained in this Certificate refer to the measurements made at the time of test and not to the instrument's ability to maintain calibration.

PROCEDURE

Measurements were performed in accordance with the in house Laboratory procedure No.1053

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.

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UKAS ACCREDITED CALIBRATION LABORATORY No. 0654



Calibration Equipr Cert Number	<u>nent Used:</u> Ident Number	Model	Serial Number	Test Equipment Calibration Due
M2988	475	A002206.G1	13431078	8 Sept 2023
1132675IH	143	33220A	MY44025316	30 Sept 2023

Notes:

Results relate only to the items calibrated.

Measurement Uncertainties

These are our best measurement capabilities with the listed test equipment, any uncertainties shown on the result sheet take in to account the resolution of the instrument being calibrated.

Parameter	Range	Uncer	tainty	Parameter	Range	Uncertainty
Revolutions Per Minute	6RPM to 6	600RPM	0.064RPM			
	600RPM t	o 6000RPM	0.065RPM			
	6000RPM	to 120000RPM	0.066RPM			

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Parameter Uncertainty Parameter Range Range

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Uncertainty

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RESULT SHEET 1053-NC-UKAS : STANDARD AT-6 OPTICAL TACHOMETER

AS FOUND

BATTERY REPLACED: NO

The Revolution Per Minute (RPM) was simulated using a precision Frequency Generator with an attached optical light source.

RPM

Range	Simulated	Indicated	Units	Indicated Deviation	Measurement Uncertainty ±
2 to	600.000	600.0	RPM	0.000	0.064
99999RPM	1000.00	1000	RPM	0.00	0.58
	2500.00	2500	RPM	0.00	0.58
	5000.00	5000	RPM	0.00	0.58
	7499.99	7500	RPM	0.01	0.58
	9999.82	10000	RPM	0.18	0.58
	14999.47	15000	RPM	0.53	0.58
	19999.16	20000	RPM	0.84	0.58
	24998.83	25000	RPM	1.17	0.58
	29998.43	30000	RPM	1.57	0.58

Manufacturer stated Accuracy: ±(0.05%+1 digit)

COMMENTS:

TEST ENGINEER: M Foy

DATE: 29th November 2022

