



Certificate of Calibration

CUSTOMER: TOTAL LABORATORY SERVICES LTD JOB No: 0520302
ORDER NO: 2023036 CUST. REF: NO CUST REF
MAKE: SCHMIDT TYPE: PH-200L
DESCRIPTION: DIGITAL TACHOMETER SERIAL No: B1283510P
AMBIENT TEMPERATURE*: 20 ± 3 °C HUMIDITY: 50 ± 25 %RH

This is to certify the above instrument has been calibrated in accordance with a relevant specification and at those points tested the result(s) were*:

Found to meet that specification on receipt [<input checked="" type="checkbox"/>]	Found to meet that specification after adjustment/repair []	Measurements recorded in absence of relevant specification []	Found NOT to meet that specification – Calibration restrictions apply []
Pre-Calibration repair performed []	Optimising adjustment performed []	Calibration performed away from laboratory* []	Calibration performed by subcontractor* []

Absolute Calibration Complies with BS EN ISO 17025 and BS EN ISO 9001

*For calibration performed away from our laboratory or by a subcontractor please see the attached certificate for environmental conditions and calibration/measurement details.

The above statement of conformity (e.g. Pass/Fail) to specification is made without taking measurement uncertainty into account unless stated otherwise in the report.

In order to comply with the above standards Absolute Calibration has to ensure that all measurements carried out in its laboratories are traceable to national standards.

Approved Signatory

DATE: 14/03/23

Absolute Calibration Limited

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Report No.

0520302

Calibration Laboratory Report

Laboratory Ambient Temperature 20 ± 3 °C Laboratory Ambient Humidity 50 ± 25 %

Cal. Procedure ☒

Description: DIGITAL TACHOMETER

Man'f H/Book ☐

Make: SCHMIDT

Type: PH-200L

Classification

Serial No: 81283510P

Cust. Ref: N/A

A ☒ B ☒ C ☒ R ☒

Customer: Total Laboratory Services Ltd Order No: 2023036

Code:TOT008

Test Step No	Function Tested	Nominal Result	Measured Value		Out of Tol	Manufacturers Specification
			As Found	After Adjust		
	<u>I/P Freq</u>	<u>Input RPM</u>	<u>Ind RPM</u>			
	0.10000 Hz	6.0	6.0			$\pm (1 \text{ RPM} + 1 \text{ digit})$
	0.41666 Hz	25.0	25.0			
	0.83333 Hz	50.0	50.0			
	1.00000 Hz	60.0	60.0			
	1.66666 Hz	100.0	100.0			
	2.50000 Hz	150.0	150.0			
	3.33333 Hz	200.0	200.0			
	4.16666 Hz	250.0	250.0			
	9.83333 Hz	590.0	590.0			
	10.1666 Hz	610.0	610.0			
	16.6666 Hz	1000.0	1000.0			$\pm (0.01\% + 1 \text{ digit})$
	83.3333 Hz	5000.0	5000.0			
	166.666 Hz	10000	10000			

All measurements are traceable to National Standards

Calibrated By: W. Smith

Date: 14/03/23

SCHPH200L-TOT008 Issue 1

Page 1 of 3

Test Step No	Function Tested	Nominal Result	Measured Value		Out of Tol	Manufacturers Specification
			As Found	After Adjust		
	<u>I/P Freq</u>	<u>Input RPM</u>	<u>Ind RPM</u>			
	333.333 Hz	20000	20000			± (0.01% + 1 digit)
	500.000 Hz	30000	30000			
	666.666 Hz	40000	40000			
	833.333 Hz	50000	50000			
	1000.00 Hz	60000	60000			
	1166.66 Hz	70000	70001			
	1333.33 Hz	80000	80001			
	1500.00 Hz	90000	90001			
	1650.00 Hz	99000	99001			

Earth Bonding and Electrical Safety Test	
Visual Inspection Ck ()	Mains Lead Ck ()
Earth Continuity	Load Test
Insulation Test	Leakage Test

Instruments used in this Calibration	
ACL CODING	RECAL DUE
C2771	SEP-23

UNCERTAINTIES OF MEASUREMENT
FREQ :- $\pm 12 \text{ ppm}$