

# Certificate of Calibration

CUSTOMER: TOTAL LABORATORY SERVICES LTD JOB No: 0539176

ORDER NO: 2024062 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               | 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 <input type="checkbox"/> | Optimising adjustment performed <input type="checkbox"/> | Calibration performed away from laboratory* <input type="checkbox"/> | Calibration performed by subcontractor* <input type="checkbox"/>      |
| <input checked="" type="checkbox"/>                       | <input type="checkbox"/>                                 | <input type="checkbox"/>   | <input type="checkbox"/>  |

## 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.

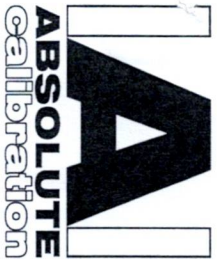
**Approved Signatory**

DATE: 08 - 04 - 2024

**Absolute Calibration Limited**

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Report No.  
**539176**

## Calibration Laboratory Report

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

Description: DIGITAL TACHOMETER

Make: SCHMIDT

Type: PH-200L

Classification

Serial No: **B1283510P**

Cust. Ref:       

A  B  S  R  N

Customer: **TOTAL LABORATORY SERVICES Ltd.** Order No: **2024062**

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              | <b>6.0</b>     |              |            | ± (1 RPM + 1 digit)         |
|              | 0.41666 Hz      | 25.0             | <b>25.0</b>    |              |            |                             |
|              | 0.83333 Hz      | 50.0             | <b>50.0</b>    |              |            | ± (0.01% + 1 digit)         |
|              | 1 Hz            | 60.0             | <b>60.0</b>    |              |            |                             |
|              | 1.666 Hz        | 100.0            | <b>100.0</b>   |              |            | —                           |
|              | 2.5 Hz          | 150.0            | <b>150.0</b>   |              |            |                             |
|              | 3.3333 Hz       | 200.0            | <b>200.0</b>   |              |            | —                           |
|              | 4.1666 Hz       | 250.0            | <b>250.0</b>   |              |            |                             |
|              | 9.833 Hz        | 590.0            | <b>590.0</b>   |              |            | —                           |
|              | 10.166 Hz       | 610.0            | <b>610.0</b>   |              |            |                             |
|              | 16.666 Hz       | 1000.0           | <b>1000.0</b>  |              |            | ± (0.01% + 1 digit)         |
|              | 83.333 Hz       | 5000.0           | <b>5000.0</b>  |              |            |                             |
|              | 166.666 Hz      | 10000            | <b>10000</b>   |              |            |                             |

All measurements are traceable to National Standards

Calibrated By: *S Craft*

*AS*

Date: **08-04-2024**

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| 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          |              |            |                             |
|              | 500.000 Hz      | 30000            | 30000          |              |            |                             |
|              | 666.666 Hz      | 40000            | 40000          |              |            | ± (0.01% + 1 digit)         |
|              | 833.333 Hz      | 50000            | 50001          |              |            |                             |
|              | 1000.00 Hz      | 60000            | 60002          |              |            |                             |
|              | 1166.66 Hz      | 70000            | 70002          |              |            |                             |
|              | 1333.33 Hz      | 80000            | 80002          |              |            |                             |
|              | 1500.00 Hz      | 90000            | 90003          |              |            |                             |
|              | 1650.00 Hz      | 99000            | 99003          |              |            |                             |

|  |                   |
|--|-------------------|
| 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 |
| N0134                                | MAR-25    |

| UNCERTAINTIES OF MEASUREMENT                        |
|---|
| <p><u>Frequency</u></p> <p>± 3pp10E9 + 1 COUNT.</p> |