

Calibration Certificate

Al Takamul Yard, North Rumailah Iraq

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Date of Issue: March 9, 2025

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REQUEST NUMBER : By Contract JOB NUMBER : QC-CAL- 25089 CERTIFICATE NUMBER : QC-CAL- 25089-02	CUSTOMER DETAILS Name : Halliburton Worldwide IRAQ (Sperry) Address : Western Burjesia, Oil Street, District Zubair-South Iraq
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EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Digital VDF RPM Indicator Type of Indication : Digital Manufacturer : LAVA Engineering Company Model : NA Serial Number : B.122 SAP : 300231268 Location : Sperry Flow Loop Test Equipment : LEPU 6666 022 RPM Range : 0 to 2900 RPM Calibration Range : 0 to 2200 RPM Resolution (Flow Rate) : 1 RPM As Found : In Tolerance	Calibration Date : March 9, 2025 Calibration Due : March 8, 2026 Last Calibration : March 26, 2024
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ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 ± 2°C Humidity : 30.0 ± 5 % RH

CALIBRATION METHOD

The above equipment has been calibrated in accordance with International Calibration Procedure # QC/CP/RPM/15 Rev. 01

The deviations of the measurements obtained from UUC with respect to reference standards are determined to obtain the error.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL #	MAKE / MODEL #	CALIBRATION DATE	DUE DATE
Digital Photo Contact Tachometer	1.3094584	LUTRON / DT-2236	5-Nov-24	4-Nov-25

CALIBRATION TEST RESULTS (Measurement Data For Flow)

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
RPM	RPM	RPM	± RPM
200	198	2	2.0
600	596	4	2.0
1200	1197	3	2.0
1600	1604	-4	2.0
2000	2005	-5	2.0
2200	2206	-6	2.0

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its

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 international practice.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) : The results are as found (no adjustment done).
 The results are post adjustment.

CALIBRATED BY  Abdulrahman Loay	REVIEWED & APPROVED BY  LAB INCHARGE Asjad Rafiq	CLIENT
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