

## Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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**Date of Issue:** July 16, 2025

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REF NUMBER : By Contract	APPROVED BY CALIBRATION CHARGE QC
Job No # : QC-CAL-25270	
CERTIFICATE NUMBER : QC-CAL-25270-01	

**CUSTOMER DETAILS**

Name | Halliburton Worldwide IRAQ (Sperry)  
 Address | Western Burjesia, Oil Street, District Zubair-South Iraq

**EQUIPMENT IDENTIFICATION AND SPECIFICATIONS**

Description | H2S , LEL Gas Sensors  
 Calibrated Range | 40 PPM H2S      50% LEL  
 Calibration Date | July 16, 2025  
 Calibration Due | **October 15, 2025**



Serial Number	Sensor Type	Model	Manufacturer
C19-401479508-10-018	H2S	Ultima XE	MSA
K19-401702086-10-009	H2S	Ultima XE	MSA
K21-402321477-10-010	H2S	Ultima XE	MSA
D19-401486482-10-003	H2S	Ultima XE	MSA
D19-401486482-10-019	H2S	Ultima XE	MSA
K19-401702086-10-004	H2S	Ultima XE	MSA
K0259625132005	LEL	Sensepoint XCD	Honeywell
K0259625132132	LEL	Sensepoint XCD	Honeywell
K0259625151873	LEL	Sensepoint XCD	Honeywell
K0259625132133	LEL	Sensepoint XCD	Honeywell
K0259625141875	LEL	Sensepoint XCD	Honeywell

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 29 °C ±2 °C      Relative Humidity : 30 %RH ±5 %RH

**CALIBRATION METHOD**

Reference cylinders consisting of gases LEL & H2S is used , which are detected by gas detector by diffusion.

**TRACEABILITY**

The measurements made by Quality Control, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

**REFERENCE EQUIPMENT USED :**

DESCRIPTION	SERIAL NO.	Make	Valid Until
Calibration Gas Cylinder (40PPM H2S)	555894	Gulf Cryo	25-Jun-2026
Calibration Gas Cylinder (50% LEL)	140135	Bristol	18-Oct-2026

**CALIBRATION TEST RESULTS**

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.0	40	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1

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