

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:

July 2, 2025

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REF NUMBER : By Contract	APPROVED BY CALIBRATION LAB INCHARGE QC
Job No # : QC-CAL-25245	
CERTIFICATE NUMBER : QC-CAL-25245-01	

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 2, 2025
 Calibration Due : **October 1, 2025**



Serial Number	Sensor Type	Model	Manufacturer
C19-401153086-10-009	H2S	Ultima XE	MSA
C19-401479508-10-006	H2S	Ultima XE	MSA
K19-401702086-10-008	H2S	Ultima XE	MSA
H21-402253476-10-005	H2S	Ultima XE	MSA
D19-401486482-10-025	H2S	Ultima XE	MSA
K0253624161749	LEL	Sensepoint XCD	Honeywell
K0253624131778	LEL	Sensepoint XCD	Honeywell
K0253624161745	LEL	Sensepoint XCD	Honeywell
K0253624161812	LEL	Sensepoint XCD	Honeywell
K0253624161753	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
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.