

Certificate of Calibration


Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:

December 18, 2024

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REF NUMBER : By Contract	APPROVED BY CALIBRATION LAB INCHARGE QC
Job No # : QC-YB-240130	
CERTIFICATE NUMBER : QC-YB-240130-01	

CUSTOMER DETAILS

Name : Halliburton Worldwide IRAQ (Sperry)-HH029
 Address : Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **11 Fixed Gas Detectors**
 Type : Digital
 Calibrated Range : 40 PPM H2S 50% LEL
 Calibrated By : Abdulrahman Loay
 Calibration Date : December 18, 2024
 Calibration Due : March 17, 2025



Serial Number	Sensor Type	Manufacturer	Model
D19-401486482-10-001	H2S	MSA	Ultima XE
D19-401486482-10-009	H2S	MSA	Ultima XE
B22-402321480-10-006	H2S	MSA	Ultima XE
K21-402321477-10-004	H2S	MSA	Ultima XE
K21-402321477-10-010	H2S	MSA	Ultima XE
G15-400275617-01-005	LEL	MSA	Ultima XE
B18-401094266-10-004	LEL	MSA	Ultima XE
A20-401750165-10-010	LEL	MSA	Ultima XE
A20-401750165-10-009	LEL	MSA	Ultima XE
A20-401750165-10-001	LEL	MSA	Ultima XE
A17-400767645-10-012	LEL	MSA	Ultima XE

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 18 °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)	140188	Bristol	18-Oct-2026

CALIBRATION TEST RESULTS

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
Methane(LEL)%	49.9	50	-0.1	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	49.8	50	-0.2	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.1	50	0.1	± 1
H2S PPM	40.1	40	0.1	± 1
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.2	40	0.2	± 1
H2S PPM	39.8	40	-0.2	± 1
H2S PPM	40.0	40	0.0	± 1

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