

Certificate of Calibration

Al Takamul Yard, North Rumaila-South Iraq

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Date of Issue: May 15, 2025

REF NUMBER : By Contract	APPROVED BY LAB INCHARGE QC
Job No # : QC-CAL-25186	
CERTIFICATE NUMBER : QC-CAL-25186-07	



CUSTOMER DETAILS

Name: **Halliburton Worldwide IRAQ**
 Address: Western Burjesia, Oil Street, District Zubair-South Iraq
 Department: HPS

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Multigas Detector**
 Manufacturer : HONEYWELL BW
 Model : GAS ALERT MicroClip X
 Serial Number : KA423-1221774
 Type : Digital
 Calibrated Range : 25 PPM H2S 100 PPM CO
 18% O2 50% LEL

Alarm Details	Low	High
Oxygen (O2) %	19.5	23.5
H2S-PPM	10	15
CH4-%LEL	10	20
CO-PPM	35	200



Calibration Date : May 15, 2025
Calibration Due : November 14, 2025

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22 °C ± 2 °C
 Relative Humidity : 30 %RH ± 5 %RH

CALIBRATION METHOD

A reference cylinder consisting of composition gases (O2, H2S, CH4, CO) (Pentane) is used, which are detected by gas detector by diffusion.

TRACEABILITY

The measurements made by QC Calibration & Testing Labs, 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	GAS EXPIRY DATE
Gas Cylinder (25PPM H2S)&(50% LEL)	WO463909-1	CALGAZ	July 31, 2026

CALIBRATION TEST RESULTS

Gas Name	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
Oxygen(O2)%	18.0	18.2	0.2	±1
LEL (CH4) %	50	49	-1.0	±1
Carbon Monoxide(CO) ppm	100	100	0.0	±1
Hydrogen Sulphide(H2S) ppm	25	25	0.0	±1

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.

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

- The results are as found (no adjustment done).
- The results are post adjustment.

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