Al Takamul Company For Engineering Services
Quality Control – Iraq

Certificate of Calibration

AlTakamul Yard, North Rumaila-South Iraq
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REQUEST NUMBER	:	By Contract	APPROVED BY LAB INCHARGE QC
JOB NUMBER	:	QC-CAL-25132	
CERTIFICATE NUMBER	:	QC-CAL-25132-01	

CUSTOMER DETAILS

Name : **Honghua Oil & Gas Engineering Services Limited**
Address : Basra, South Iraq
Rig : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	**Multigas Detector**			
Manufacturer	Honeywell			
Model	BW Max XT II			
Serial Number	MA220-007356			
Type	Digital			
Calibrated Range	25 PPM	H2S	100 PPM	CO
	18%	O2	50%	LEL
Calibrated By	Hussein Alaa			
Calibration Date	April 15, 2025			
Calibration Due	**October 14, 2025**			

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

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature	25 ℃	±	2 ℃
Relative Humidity	35 %RH	±	5 %RH

CALIBRATION METHOD

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

TRACEABILITY

The measurements made by Aberdeen Calibration & Testing Labs are traceable to NIST, vide CALGAZ Certificate of Analysis
The measurements made by Aberdeen Calibration & Testing Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by Aberdeen.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	MAKE	GAS EXPIRY DATE
Mixture of Gases.	950-092876	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	18	0	± 1
Methane(CH4) LEL	50	50	0	± 1
Carbon Monoxide(CO) ppm	100	100	0	± 1
Hydrogen Sulphide(H2S) ppm	25	25.0	0	± 1

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

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.