

## Certificate of Calibration

AlTakamul Yard, North Rumaila-South Iraq

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Date of Issue: May 11, 2024

REF NUMBER	: By Contract	APPROVED BY LAB IN CHARGE QC
Job No #	: QC/JN/24/00209	
CERTIFICATE NUMBER	: QC240511-022	



### CUSTOMER DETAILS

Name: Daqing Drilling Company IRAQ  
Address: Basra, South Iraq  
Rig: DQ011

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description: Multigas Detector  
Manufacturer: Honeywell BW  
Model: Max XT II  
Serial Number: MA221-020485  
Type: Digital  
Calibrated Range: 25 PPM H2S, 100 PPM CO, 18.0% O2, 50% LEL

Alarm Details	Low	High
Oxygen (O2) %	19.5	23.5
H2S-ppm	5	10
CH4-%LEL	10	20
CO-ppm	35	100



Calibrated By: Asjad Rafiq  
Calibration Date: May 11, 2024  
**Calibration Due: August 10, 2024**

### 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, LEL, H2S, CO) is used, which are detected by gas detector by diffusion.

### TRACEABILITY

The measurements made by QC Calibration & Testing Labs are traceable to NIST, vide CALGAZ Certificate of Analysis  
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
Multigas Calibration cylinder	950-106554	CALGAZ	21/08/2025

### CALIBRATION TEST RESULTS

Gas Name	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
Oxygen(O2)%	18.0	18.0	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.