



## Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:	April 15, 2025	APPROVED BY: 
REQUEST NUMBER :	By Contract	
JOB NUMBER :	QC-CAL-25132	
CERTIFICATE NUMBER :	QC-CAL-25132-03	

### CUSTOMER DETAILS

Name :	<b>Honghua Oil &amp; Gas Engineering Services Limited</b>
Address :	Basra, South Iraq
Rig :	HH008

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	<b>Fixed Gas System</b>	
Manufacturer	Honeywell	
Model	SPXCDALMTXF	
Type	Digital	
Calibrated Range	25 PPM H2S	50% LEL
Calibrated By	Hussein Alaa	
Calibration Date	April 15, 2025	
Calibration Due	<b>July 14, 2025</b>	



Serial Number	Sensor Type	Manufacturer	Manufacturer
K0253515170647	H2S	Honeywell	Rig Floor
K0253513180243	H2S	Honeywell	Bell Nipple
K0253520061651	H2S	Honeywell	Shale Shaker
K0253520000000	H2S	Honeywell	Celler
K0253623321601	LEL	Honeywell	Rig Floor
K0253615201174	LEL	Honeywell	Bell Nipple
K0253613160405	LEL	Honeywell	Shale Shaker
K0253613000000	LEL	Honeywell	Celler

### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 28°C ± 2°C ± 2 Relative Humidity 40 %RH ± 10 %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 (25PPM H2S) & (50% LEL)	WO463909-1	CALGAZ	July 31, 2026

### CALIBRATION TEST RESULTS

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
H2S PPM	25.0	25.0	0.0	± 1
H2S PPM	24.9	25.0	-0.1	± 1
H2S PPM	25.1	25.0	0.1	± 1
H2S PPM	25.0	25.0	0.0	± 1
Methane(LEL)%	50.0	50.0	0.0	± 1
Methane(LEL)%	50.0	50.0	0.0	± 1
Methane(LEL)%	50.0	50.0	0.0	± 1
Methane(LEL)%	50.0	50.0	0.0	± 2

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

### REMARK (S) :

- 1 The results relate to measurements taken at nominal value only.
- 2 No adjustments were made prior to calibration.
- 3 No accessories were fitted.
- 4 Calibration were carried out for all the Sensors

Alarm Details	Low	High
H2S-ppm	5	10
CH4-%LEL	20	40

Tested and found OK