

## Certificate of Calibration

AlTakamul Yard, North Rumaila-South Iraq

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Date of Issue:

May 26, 2024

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|                    |                |                 |
|--------------------|----------------|-----------------|
| REQUEST NUMBER     | By Mail        | APPROVED        |
| JOB NUMBER         | QC/JN/24/00223 | TABLE           |
| CERTIFICATE NUMBER | QC240526-04    | QUALITY CONTROL |

### CUSTOMER DETAILS

Name : Zhongman Petroleum Engineering  
Address : Basra, South Iraq  
Rig : ZPEC025

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Portable H2S Gas Sensor  
Manufacturer : HONEYWELL  
Model : BW Clip  
Serial Number : 5220BWC01221608670  
Type : Digital  
Calibrated Range : 25 PPM H2S  
As found : Good  
Calibrated By : Asjad Rafiq  
Calibration Date : May 26, 2024

| Alarm Details | Low | High |
|---------------|-----|------|
| H2S PPM       | 10  | 15   |

**Calibration Due**

August 25, 2024

3 Months Validity from the date of Calibration

### ENVIRONMENTAL CONDITIONS DURING TEST

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

### CALIBRATION METHOD

A reference cylinder consisting of Sulphur Dioxide (H2S) Gas 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 (25 PPM H2S) | 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 |
|------------------|---------------|------------------------------|-------------------------|----------------------------|
| H2S Gas (25 ppm) | 25.0          | 25                           | 0                       | ± 0.2                      |

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.