

# Appendix I

## Landfill Gas Monitoring Equipment Calibration Certificate



# 路達國際有限公司

## ROTTER INTERNATIONAL LIMITED

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### Calibration Report - Gas Detector

**PGM-2500 (QRAE III) --- LEL/O2/CO/H2S**

#### UNIT INFORMATION :

Customer:	Penta Ocean Construction Co Ltd	Serial # :	M02A001708	Model :	QRAE III
		Firmware :	V2.14	Sensor :	LEL/O2/CO/H2S
		Cal date :	28-Jul-2023	Inspected:	Teddy

#### SENSOR DATA :

	LEL sensor (ME)	O2 sensor	CO sensor (Tox1)	H2S sensor (Tox2)
Calibration dates:	28-Jul-2023	28-Jul-2023	28-Jul-2023	28-Jul-2023
After Calibration levels	<b>51%</b>	<b>18.10%</b>	<b>50 ppm</b>	<b>10.0 ppm</b>
Alarm levels (Low):	<b>10.00%</b>	<b>19.50%</b>	<b>35 ppm</b>	<b>10 ppm</b>
Alarm levels (High):	<b>20.00%</b>	<b>23.50%</b>	<b>200 ppm</b>	<b>20 ppm</b>
TWA Level :	--	--	<b>35 ppm</b>	<b>10 ppm</b>
STEL Level :	--	--	<b>100 ppm</b>	<b>15 ppm</b>

#### Status:

Pump Speed	<b>Low</b>	Back Light	<b>Manual</b>
Clock	<b>Yes</b>	Measure	<b>Average</b>

#### LEL Gas Selection

LEL Calibration Gas	<b>Methane</b>	LEL measurement Gas	<b>Methane</b>
LEL Custom Gas	<b>LEL_custom_gas</b>	LEL Custom Factor	<b>1.0</b>

**Gas types used : 4-Gas Mix: (18% O2, 50ppm CO, 10ppm H2S, 50% LEL CH4, BAL N2) Gas lot :302-402538759-74**

\*\*\* **Fresh Air Calibration** is highly recommended to proceed prior for measurement each time.

Replaced Parts:

#### Notes:

The unit was calibrated and checked under good working condition

\*\*Next calibration due on or before 27 July 2024

Serviced by Teddy Wong  
Rotter International Ltd



# PROMAT (HK) LTD

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Your Solution To Testing Instrument

## VERIFICATION CERTIFICATE OF CO2 METER

Report No. : 23030  
Date : 27/11/2023  
Client : Penta-Ocean-Concentric Joint Venture

### EQUIPMENT TO BE VERIFIED

Equipment Name : CO2 Meter  
Supplier : TES  
Model No. : TES-1370H  
Serial No. : 200901259  
Date of Verification : 17/11/2023  
Due Verification : 16/11/2024

### VERIFICATION DEVICES USED

Reference Equipment : CO2 in N2  
Supplier : NorLab  
Model No. : H1013.5VN  
Lot # : 1-006-21  
Expiry date : 1/1/2024  
Accuracy : Within +/-2%

### ENVIRONMENTAL CONDITION

Ambient Temp : 24.9°C  
Relative Humidity : 50%

### Verification Result

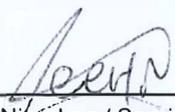
Test Number	Concentration (Mole%)	Results
Test 1	0.50%	4908ppm

### Remarks

- 1 The Gas reference used in this verification has traceable accuracy to Manufacturer Standard
- 2 The above equipment was operated by the competent person
- 3 Promat is Registered ISO9001:2015 Quality Management System in Sales, Repair and Calibration Services

### Certification

Verification by

  
Ms. Ning Lee / Service Coordinator

Checked by

  
Mr. Hei Kong / Technical Engineer

