

Correction Factors and Calibration Gases

Meter # _____

Calibration Gas: : _____

Department _____

Test Date: _____

Sensor Calibration Gas: METHANE

Target Gas Leak: **PROPANE**

Correction Factor: 1.6



Screen Reading	Correction Factor	Actual	The Safety Reality
1% LEL	x 1.6	1.6% LEL	Slightly higher than it look.
2% LEL	x 1.6	3.2% LEL	Almost twice what is displayed
3% LEL	x 1.6	4.8 % LEL	Approaching 5% of the LEL
4% LEL	x 1.6	6.4 % LEL	There is a 2.4% gap between what's shown & actual
5% LEL	x 1.6	8.0 % LEL	True gas level is near double double digits
6% LEL	x 1.6	9.6% LEL	Almost at 10% LEL action level!
7% LEL	x 1.6	11.2% LEL	ALERT: Past standard 10% evacuation threshold.
8% LEL	x 1.6	12.8% LEL	Screen looks safe; environment is not.
9% LEL	x 1.6	14.4% LEL	Nearly a 5% LEL hidden danger gap.
10% LEL	x 1.6	16.0% LEL	DANGER: Screen shows 10%, actual is 16%!

Sensor Calibration Gas: PROPANE

Target Gas Leak: **METHANE**

Correction Factor: 0.6

Formula: Screen Reading X 0.6 = Actual LEL %

Screen Reading	Correction Factor	Actual Methane %	The Safety Reality
1% LEL	x 0.6	0.6% LEL	Over-reporting danger.
2% LEL	x 0.6	1.2% LEL	Over-reporting danger.
3% LEL	x 0.6	1.8% LEL	Over-reporting danger.
4% LEL	x 0.6	2.4% LEL	Over-reporting danger.
5% LEL	x 0.6	3.0% LEL	Over-reporting danger.
6% LEL	x 0.6	3.6% LEL	Over-reporting danger.
7% LEL	x 0.6	4.2% LEL	Over-reporting danger.
8% LEL	x 0.6	4.8% LEL	Over-reporting danger.
9% LEL	x 0.6	5.4% LEL	Over-reporting danger.
10% LEL	x 0.6	6.0% LEL	Over-reporting danger.

⚠ IMPORTANT VERIFICATION REQUIREMENT

The conversion data shown above is for illustrative purposes and must be verified before field use. Each agency must independently double-check these numbers against:

- * Your specific metering system models.
- * The exact calibration gas used by your team.
- * The formal equipment manufacturer guidelines and data sheets.

Correction Factors and Calibration Gases

Meter # _____

Calibration Gas: : _____

Department _____

Test Date: _____

Sensor Calibration Gas: n-Pentane

Target Gas Leak: **METHANE**

Correction Factor: 0.5

Formula: Screen Reading X 0.5 = Actual LEL %

Screen Reading	Correction Factor	Actual Methane (%)	Safety Status
1% LEL	X 0.5	0.5% LEL	Over-reporting danger.
2% LEL	X 0.5	1% LEL	Over-reporting danger.
3% LEL	X 0.5	1.5% LEL	Over-reporting danger.
4% LEL	X 0.5	2% LEL	Over-reporting danger.
5% LEL	X 0.5	2.5% LEL	Over-reporting danger.
6% LEL	X 0.5	3% LEL	Over-reporting danger.
7% LEL	X 0.5	3.5% LEL	Over-reporting danger.
8% LEL	X 0.5	4% LEL	Over-reporting danger.
9% LEL	X 0.5	4.5% LEL	Over-reporting danger.
10% LEL	X 0.5	5% LEL	Over-reporting danger.



Sensor Calibration Gas: n-Pentane

Target Gas Leak: **PROPANE**

Correction Factor: 0.8

Formula: Screen Reading X 0.8 = Actual LEL %

Screen Reading	Correction Factor	Actual Propane (%)	Safety Status
1% LEL	X 0.8	0.8% LEL	Over-reporting danger.
2% LEL	X 0.8	1.6% LEL	Over-reporting danger.
3% LEL	X 0.8	2.4% LEL	Over-reporting danger.
4% LEL	X 0.8	3.2% LEL	Over-reporting danger.
5% LEL	X 0.8	4% LEL	Over-reporting danger.
6% LEL	X 0.8	4.8% LEL	Over-reporting danger.
7% LEL	X 0.8	5.6% LEL	Over-reporting danger.
8% LEL	X 0.8	6.4% LEL	Over-reporting danger.
9% LEL	X 0.8	7.2% LEL	Over-reporting danger.
10% LEL	X 0.8	8% LEL	Over-reporting danger.

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Correction Factors and Calibration Gases

Meter # _____

Calibration Gas: : _____

Department _____

Test Date: _____

Sensor Calibration Gas: n-Hexane

Target Gas Leak: **METHANE**

Correction Factor: 0.4

Formula: Screen Reading X 0.4 = Actual LEL %

Screen Reading	Correction Factor	Actual Methane %	Safety Reality
1% LEL	X 0.4	0.4% LEL	Over-reporting danger.
2% LEL	X 0.4	0.8% LEL	Over-reporting danger.
3% LEL	X 0.4	1.2% LEL	Over-reporting danger.
4% LEL	X 0.4	1.6% LEL	Over-reporting danger.
5% LEL	X 0.4	2% LEL	Over-reporting danger.
6% LEL	X 0.4	2.4% LEL	Over-reporting danger.
7% LEL	X 0.4	2.8% LEL	Over-reporting danger.
8% LEL	X 0.4	3.2% LEL	Over-reporting danger.
9% LEL	X 0.4	3.6% LEL	Over-reporting danger.
10% LEL	X 0.4	4% LEL	Over-reporting danger.



Sensor Calibration Gas: n-Hexane

Target Gas Leak: **PROPANE**

Correction Factor: 0.6

Formula: Screen Reading X 0.6 = Actual LEL %

Screen Reading	Correction Factor	Actual Propane %	Safety Reality
1% LEL	X 0.6	0.6% LEL	Over-reporting danger.
2% LEL	X 0.6	1.2% LEL	Over-reporting danger.
3% LEL	X 0.6	1.8% LEL	Over-reporting danger.
4% LEL	X 0.6	2.4% LEL	Over-reporting danger.
5% LEL	X 0.6	3% LEL	Over-reporting danger.
6% LEL	X 0.6	3.6% LEL	Over-reporting danger.
7% LEL	X 0.6	4.2% LEL	Over-reporting danger.
8% LEL	X 0.6	4.8% LEL	Over-reporting danger.
9% LEL	X 0.6	5.4% LEL	Over-reporting danger.
10% LEL	X 0.6	6% LEL	Over-reporting danger.

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