

RKI Sensor Specification

Features: Fast warm-up time
Good zero stability
Quick response time
Sensitive to all Flammable gases & vapors

LEL/PPM Hydrocarbon Sensor

Part Number: 62-0125RK

Sensor Application: Eagle

Technical Specifications			
Measuring Principle	Catalytic Oxidation	Accuracy	+/- 5% of reading or +/- 2% LEL (whichever is greater)
Range of Measurement	0 – 100% LEL / 0-50,000 ppm	Repeatability	+/- 2% of reading
Resolution	1% of full scale	T₉₀ Response time (20°C, 2 min. exposure)	< 30 seconds

Operating Conditions			
Temperature Range	-20°C to +50°C	Life Expectancy	2 -5 Years
Humidity Range	0-100% RH, Non Condensing	Warranty	1 Year

Relative Response Information

The response factors below are based on calibration with methane. These factors should be used for rough approximation only. For best accuracy, calibrate with target gas if practical.

To calculate the approximate LEL level for an alternate gas, multiply gas reading by appropriate conversion factor.

Gas	Conversion Factor
Acetone ((CH ₃) ₂ CO)	1.89
Benzene (C ₆ H ₆)	2.85
Butyl acrylate	**
Butyl acetate	4.34
2 - Butyl alcohol	4.49
1- Butyl alcohol	6.28
Cyclohexane	2.77
Cumene	5.89
Ethylene Dichloride	5.55
Ethyl Alcohol	2.04
Ethyl Chloride	1.72
Ethyl Acrylate	3.57
Hexane	2.14
Hydrogen (H ₂)	1.10
Isobutane (C ₄ H ₁₀)	1.79

Gas	Conversion Factor
Isopropanol	2.19
Methane (CH ₄)	1.0
Methanol (CH ₃ OH)	1.72
Methyl Acetate	1.68
Methyl Acrylate	1.92
Methyl Ethyl Keytone	2.94
Methyl Isobutyl Keytone	2.94
Nonane	4.28
Pentane (C ₅ H ₁₂)	1.92
Propane	1.59
Styrene	4.09
Toluene (C ₇ H ₈)	2.00
Xylene (C ₈ H ₁₀)	2.94
Vinyl Acetate Monomer	3.55

*- Vapor pressure too low for significant LEL reading.

** - Testing above performed with sensor current at 148mA