

RKI Sensor Specification

LEL Methane (CH4)

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

Part Number: 61-0190RK-CH4
Sensor Application: Fixed Systems

Technical Specifications			
Measuring Principle	Infrared	Accuracy	+/- 5% of reading or +/- 2% of full scale (whichever is greater)
Range of Measurement	0 – 100% LEL	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	5-10 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	1.57
Acetylene	NR
Benzene	NR
Butane	0.59
Cyclopentane	1.71
Ethanol	.57
Ethylene	1.49
Ethane	0.39
Hexane	0.86
Hydrogen	NR

Gas	Conversion Factor
Isopropyl Alcohol	0.86
Methane	1.0
Methanol	0.45
Methyl Ethyl Ketone	1.60
Propane	0.57
Propylene	1.0
Pentane	0.66
Toluene	1.23
Xylene	1.65

Please note – relative response is at 50% LEL gas concentration. Relative response at other gas concentrations will vary. Sensor response is optimized for methane gas, response to other gases will be non-linear.