

RKI Sensor Specification

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

LEL Hydrocarbons (HC)

Part Number: 61-0190RK-HC

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 gas as listed at column heading. These factors should be used for rough approximation only. For best accuracy, calibrate with target gas if practical.

To get appropriate setting, multiply surrogate gas concentration by appropriate conversion factor to get desired setting.

Gas	Corrosion Factor
Acetone	2.75
Acetylene	NR
Benzene	NR
Butane	1.04
Cyclopentane	3.0
Ethanol	1.0
Ethylene	2.6
Ethane	0.68
Hexane	1.5
Hydrogen	NR

Gas	Corrosion Factor
Isopropyl Alcohol	1.50
Methane	1.75
Methanol	0.78
Methyl Ethyl Ketone	2.80
Propane	1.0
Propylene	1.75
Pentane	1.16
Toluene	2.15
Xylene	1.88