

# 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			
<b>Measuring Principle</b>	Infrared	<b>Accuracy</b>	+/- 5% of reading or +/- 2% of full scale (whichever is greater)
<b>Range of Measurement</b>	0 – 100% LEL	<b>Repeatability</b>	+/- 2% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time (20°C, 2 min. exposure)</b>	< 30 seconds

Operating Conditions			
<b>Temperature Range</b>	-20°C to +50°C	<b>Life Expectancy</b>	5-10 Years
<b>Humidity Range</b>	0-100% RH, Non Condensing	<b>Warranty</b>	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