

RKI Sensor Specification

LEL Combustible

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

Part Number: 61-0140RK

Sensor Application: Fixed Systems

Technical Specifications			
Measuring Principle	Catalytic Oxidation	Accuracy	+/- 5 % of reading or +/- 2% LEL (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	-40°C to +60°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 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.

	Calibration Gas		
	LEL Methane	Hexane	Isobutane
Acetone	1.89	0.74	1.00
Benzene	2.85	1.12	1.51
n-Butane	1.95	0.76	1.03
Butyl acrylate	*	*	*
Butyl acetate	4.34	1.70	2.30
2-Butyl alcohol	4.49	1.76	2.38
1- Butyl alcohol	6.28	2.47	3.33
CycloHex	2.77	1.09	1.47
Cumene	5.89	2.31	3.12
Ethylene dichloride	5.55	2.18	2.94
Ethyl alcohol	2.04	0.80	1.08
Ethyl chloride	1.72	0.67	0.91
Ethyl acrylate	3.57	1.40	1.89
Hexane	2.55	1.00	1.35
Hydrogen	1.19	0.47	0.63
Isobutane	1.89	0.74	1.00
Isopropanol	2.19	0.86	1.16

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Methane	1.00	0.39	0.53
Methanol	1.72	0.67	0.91
Calibration Gas			
	LEL Methane	Hexane	Isobutane
Methyl acetate	1.68	0.66	0.89
Methyl acrylate	1.92	0.76	1.02
Methyl ethyl ketone	2.94	1.16	1.56
Methyl isobutyl ketone	2.94	1.16	1.56
"Mixed xylenes "	2.94	1.16	1.56
Nonane	4.28	1.68	2.27
Pentane	3.00	1.00	1.56
Propane	1.68	0.66	0.89
Styrene	4.09	1.61	2.17
Toluene	2.00	0.79	1.06
Vinyl acetate monomer	3.55	1.39	1.88

* - Vapor pressure too low for significant LEL reading.

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