



# DIRECT CONNECT SENSORS

Gas Detection For Life

LEL / H<sub>2</sub> / O<sub>2</sub> / CO / H<sub>2</sub>S



Explosion Proof  
LEL

Explosion Proof  
O<sub>2</sub>

## Features

- Explosion proof housing available
- Water repellent patented sensor coating
- Available for LEL, H<sub>2</sub>, O<sub>2</sub>, CO, and H<sub>2</sub>S
- Long life sensors (2 + years typical)

## Applications

- Petrochemical plants
- Refineries
- Gas plants
- Offshore drilling platforms
- Water & wastewater treatment plants
- Pulp & paper mills
- Gas, telephone, & electric utilities
- Parking garages
- Manufacturing facilities
- Steel
- Automotive

The RKI direct connect series gas sensors are highly reliable and very cost effective for the detection of common gas hazards. The direct connect series are available for LEL, H<sub>2</sub> Specific LEL, Oxygen, H<sub>2</sub>S, and CO for a variety of RKI's controllers. All sensors are explosion-proof with flame arrestors, and approved (an optional non-explosion proof version is available for oxygen in non-hazardous atmospheres).

The direct connect sensors can be used in two different ways. The sensors can be mounted directly to the controllers as a complete stand alone system, or they can be mounted to explosion proof junction boxes for remote detection.

The direct connect sensors can be used either indoors or outdoors. The flame arrestors for the explosion-proof versions utilize a patented coating which make them water repellent. Also, splash guards are available for use in very wet environments.

All of the direct connect sensors are designed to specifically interface with RKI controllers.

# LEL / H2 / O2 / CO / H2S

	LEL	LEL H <sub>2</sub>	LEL Infrared		O <sub>2</sub>	CO	H <sub>2</sub> S
			CH <sub>4</sub>	HC			
<b>Sensor With J-Box</b>	61-1000RK (UL) 61-1006RK-05 (CSA)	61-1001RK	61-1003RK-CH4	61-1003RK-HC	65-2512RK (non xp) 65-2515RK (xp)	65-2437RK-05	65-2427RK-05
<b>Sensor Only</b>	61-0140RK (UL) 61-0140RK-05 (CSA)	NC-6234-01	61-0190RK-CH4	61-0190RK-HC	65-2511RK (non xp) 65-2514RK (xp)	65-2433RK-05	65-2423RK-05
<b>Measuring Range</b>	0-100% LEL		0-100% LEL		0-25% Vol.	0-300 ppm	0-100 ppm
<b>Response Time</b>	30 seconds to 90%	20 seconds to 90%	30 seconds to 90%		20 seconds to 90%	1 second to 90%	
<b>Operating Environment</b>							
<b>Location</b>	Indoor or outdoor. Explosion proof (optional for O2) for Class I, Div. 1, Groups B, C, and D atmospheres.						
<b>Temperature</b>	-40 ~ 185° F		-4 ~ 122°F		-4 ~ 113° F		
<b>Humidity</b>	0 - 99% RH non condensing						
<b>Housing</b>							
<b>Housing J-Box</b>	Cast aluminum, explosion-proof, epoxy coated						
<b>Sensor</b>	Stainless steel				Stainless steel (xp) Plastic (non xp)	Stainless steel	
<b>Sensor</b>							
<b>Type</b>	Catalytic		Infrared		Galvanic cell	Electrochemical	
<b>Life Expectancy</b>	1 to 2 years with normal intermittent exposure to flammable gas	3 years with normal intermittent exposure to H <sub>2</sub>	5 + years normal service		2 years normal service	2 to 3 years normal service	
<b>Controllers</b>							
<b>Beacon 110</b>	X	X	X		X	X	X
<b>Beacon 200</b>	X	X	X		X	X	X
<b>Pioneer 4W</b>	X	X	X		X	-	-
<b>Approvals</b>	UL or CSA	UL or CSA	UL		CSA NRTL (optional for O2)		
<b>Warranty</b>	One year materials and workmanship						

Specifications subject to change without notice.

Made in the USA



A9812



ISO 9001:2000



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