



DIRECT CONNECT SENSORS

Gas Detection For Life

LEL / H₂ / O₂ / CO / H₂S



Explosion Proof
LEL

Explosion Proof
O₂

Features

- Explosion proof housing available
- Water repellent patented sensor coating
- Available for LEL, H₂, O₂, CO, and H₂S
- 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, H₂ Specific LEL, Oxygen, H₂S, 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 ₂	LEL Infrared		O ₂	CO	H ₂ S
			CH ₄	HC			
Sensor With J-Box	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
Sensor Only	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
Measuring Range	0-100% LEL		0-100% LEL		0-25% Vol.	0-300 ppm	0-100 ppm
Response Time	30 seconds to 90%	20 seconds to 90%	30 seconds to 90%		20 seconds to 90%	1 second to 90%	
Operating Environment							
Location	Indoor or outdoor. Explosion proof (optional for O ₂) for Class I, Div. 1, Groups B, C, and D atmospheres.						
Temperature	-40 ~ 185° F		-4 ~ 122°F		-4 ~ 113° F		
Humidity	0 - 99% RH non condensing						
Housing							
Housing J-Box	Cast aluminum, explosion-proof, epoxy coated						
Sensor	Stainless steel				Stainless steel (xp) Plastic (non xp)	Stainless steel	
Sensor							
Type	Catalytic		Infrared		Galvanic cell	Electrochemical	
Life Expectancy	1 to 2 years with normal intermittent exposure to flammable gas	3 years with normal intermittent exposure to H ₂	5 + years normal service		2 years normal service	2 to 3 years normal service	
Controllers							
Beacon 110	X	X	X		X	X	X
Beacon 200	X	X	X		X	X	X
Pioneer 4W	X	X	X		X	-	-
Approvals	UL or CSA	UL or CSA	UL		CSA NRTL (optional for O ₂)		
Warranty	One year materials and workmanship						

Specifications subject to change without notice.

Made in the USA



A9812



ISO 9001:2000

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