DIRECT CONNECT SENSORS



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, LEL IR, Oxygen, H2S, CO, CO2, and for a variety of toxic gases. The sensors for LEL, H2, Oxygen, H2S, CO2, and Carbon Monoxide are explosion-proof with flame arrestors, and approved for use in hazardous areas (Class I, Div. 1 Groups B, C, D). An optional non-explosion proof version is available for oxygen, H2S, CO, and CO2 for use 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 toxic sensors are electrochemical type plug-in sensors, which provide high specificity, fast response, and long life. The plug-in design allows quick replacement in the field with no tools required. Toxic sensors are designed for use in Class I, Div. 2 hazardous locations. Sensors are available for NH3, AsH3, Cl2, ClO2, HCN, PH3, and SO2.

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. An optional stainless steel junction box is available for corrosive environments.

All of the Direct Connect sensors are designed to specifically interface with RKI Beacon 110, 200, and 410A controllers.

Explosion Proof

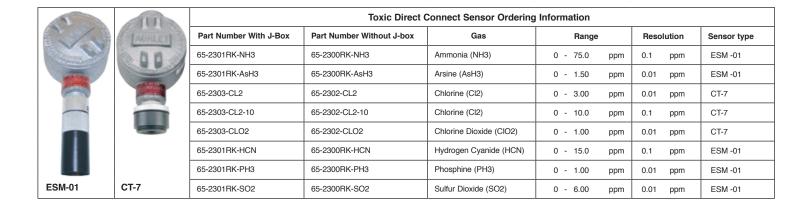
	LEL General Purpose	LEL H2 Specific	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	CH4 Methane	HC Hydrocarbons	CO2 Carbon Dioxide
Sensor With J-Box	61-1000RK 61-1000RK-05	61-1001RK 61-1001RK-05	65-2515RK	65-2427RK-05	65-2437RK-05	61-1003RK-CH4 61-1006RK-CH4	61-1003RK-HC	61-1004RK-02 61-1004RK-03 61-1004RK-05 61-1004RK-10
Sensors	Catalytic		Galvanic cell	Electrochemical		Infrared		
Sensor Only	61-0140RK (UL) 61-0140RK-05 (CSA)	LEL H2 - NC-6205- 01	65-2514RK	65-2428	65-2438	61-0190RK-CH4 61-0192RK-CH4	61-0190RK-HC	61-0191RK-02 61-0191RK-03 61-0191RK-05 61-0191RK-10
Measuring Range	0-100%	6 LEL	0-25% Vol.	0-100 ppm	0-300 ppm	0-100% LEL 0-100% Vol.	0-100% LEL	-02 0 - 5000 ppm -03 0 - 5.0% Vol. -05 0 - 50% Vol. -10 0 - 100% Vol.
Lower Detectable Limit (LDL)	2% of full scale		0.1% Vol.	2% of full scale				
Response Time (T-90)	LEL - 30 Seconds	LEL H2 - 20 Seconds	20 Seconds	35 Se	conds	30 Seconds	30 Seconds	30 Seconds
Accuracy	+/- 5% of full scale (0.5% volume for oxygen)							
Life Expectancy	2 to 3 years with 3 to 5 years with normal service normal service		2 to 3 years with normal service		5 years plus with normal service			
Operating Environment								
Location	Location Indoor or outdoor. Explosion proof for Class I, Groups B, C, and D atmospheres.							
Temperature	-40°F to 167°F -40°C to 75°C		-4°F to 113°F -20°C to 45°C	-40°F to 104°F -40°C to 40°C	23°F to 104°F -5°C to 40°C			
Humidity	0 - 99% RH non condensing							
Housing								
Housing J-Box	Cast aluminum, explosion-proof, optional stainless steel J-box available							
Sensor	Stainless steel, explosion-proof							
Approvals	61-1000RK UL	61-1001RK UL	CCA NIDTI					
	61-1000RK-05 CSA	61-1001RK-05 CSA	CSA NRTL			c UL _{US}		
Controllers	Compatible with the following controllers: Beacon 110, Beacon 200, and Beacon 410A							
Warranty	One year materials and workmanship							

www.rkiinstruments.com Direct Connect Sensors

Non Explosion Proof

	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	Toxics	CO2 Carbon Dioxide	
Sensor With J-Box	65-2497RK *65-2502RK	65-2498RK	65-2499RK	See Chart Below	61-1007RK-02 61-1007RK-03 61-1007RK-05 61-1007RK-10	
Sensors	Galvanic cell		Infrared			
Sensor Only	65-2494RK *65-2510RK	65-2495RK	65-2496RK	See Chart Below	61-0198RK-02 61-0198RK-03 61-0198RK-05 61-0198RK-10	
Measuring Range	0-25% Vol.	0-100 ppm	0-300 ppm	See Charl below	0 - 5000 ppm 0 - 5.0% Vol. 0 - 50% Vol. 0 - 100% Vol.	
Lower Detectable Limit (LDL)	0.1% Vol.	0.1% Vol. 2% of full scale				
Response Time (T-90)	20 seconds or less 35 seconds		ds or less 60 seconds or less		30 seconds or less	
Accuracy	+/- 5% of full scale (0.5% volume for oxygen)					
Life Expectancy	2 years with normal service	2 to 3 years with normal service			5 years plus with normal service	
Operating Environment						
Location	Indoor or outdoor, Class I, Div. 2					
Temperature		-4°F to 122°F -20°C to 50°C		14°F to 104°F -10°C to 40°C	-40°F to 122°F -40°C to 50°C	
Humidity	0 - 99% RH non condensing					
Housing						
Housing J-Box	Cast aluminum, explosion-proof					
Sensor	Aluminum					
Controllers	Compatible with the following controllers: Beacon 110, Beacon 200, and Beacon 410A					
Warranty	One year materials and workmanship					

^{*} Partial pressure sensor for helium (He) applications. Consult factory for details.



(800) 754-5165 Direct Connect Sensors

AVAILABLE ACCESSORIES



Remote Mount Calibration Adaptor



Flow through adaptors



Remote horns & lights



Battery Backup



Calibration kits



Datalogger

Direct Interface with Beacon 110 / 200 / 410A Controllers

Direct Connect Wiring Matrix					
Sensor	Number of Wires to	Maximum Distance to Controller			
	Controller	18 AWG wire min.			
LEL / CO2	4	500 ft.			
Oxygen	2	500 ft.			
H2S	2	500 ft.			
CO	2	500 ft.			
Toxics	2	500 ft.			

Made in the USA

Authorized Distributor:



