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 Class 1 Div 2.

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.

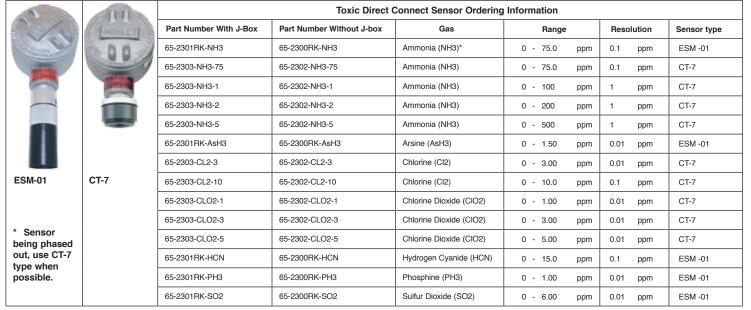
Class I, Div. 1 , Groups B, C, D

	LEL General Purpose	LEL H2 Specific	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	CH4 Methane IR	HC Hydrocarbons IR	CO2 Carbon Dioxide IR		
Sensor With J-Box	61-1000RK (UL) 61-1000RK-05 (CSA)	61-1001RK (UL) 61-1001RK-05 (CSA)	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	Cata	alytic	Galvanic cell	Electrod	hemical		Infrared			
OCHSOIS	Odik	ary tro	Garvarilo con	Licotroc	Hornical		minaroa	61-0191RK-02		
Sensor Only	61-0140RK (UL) 61-0140RK-05 (CSA)	LEL H2 - NC-6205-01 (UL) NC-6205-05 (CSA)	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	% 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 f	ull scale	0.1% Vol.			2% of full scale				
Response Time (T-90)	LEL - 30 Seconds	LEL H2 - 20 Seconds	90 Seconds	60 Seconds	90 Seconds	30 Seconds	30 Seconds	30 Seconds		
Accuracy	+/- 5% of full scale (0.5% volume for oxygen)									
Life Expectancy	2 to 3 years with normal service	3 to 5 years with normal service	2 to 3	years with normal	ears with normal service 5 years plus with normal service		ice			
Operating Enviro	onment									
Location	Location Indoor or outdoor. Explosion proof for Class I, Groups B, C, and D atmospheres.									
Temperature	-40°F to	-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	-40°F to 122°F -40°C to 50°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								
	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

	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	Electrochemical			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 Chart below	0 - 5000 ppm 0 - 5.0% Vol. 0 - 50% Vol. 0 - 100% Vol.	
Lower Detectable Limit (LDL)	0.1% Vol.	2% of full scale				
Response Time (T-90)	20 seconds or less	35 seconds 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 serv	ice	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.



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 18 AWG wire min.				
	Controller					
LEL / CO2 / IR	4	500 ft.				
Oxygen	2	500 ft.				
H2S	2	500 ft.				
СО	2	500 ft.				
Toxics	2	500 ft.				

Made in the USA

Authorized Distributor:



