



SAMPLE DRAW SENSOR / TRANSMITTER

Gas Detection For Life

35-3000RK Model



Features

- NEMA 4X enclosure
- Long life pump
- Flowmeter and LED's for operational status
- Low flow indication
- Operates on 24VDC input
- Multigas versions available with up to 4 sensor in one enclosure
- Available in LEL, O₂, H₂S, CO, H₂ (ppm or LEL)
- LEL and O₂ available together in one standard compact enclosure

Industry Applications

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

The 35-3000RK series is a compact sample draw detector assembly with a built-in pump that accepts a 24VDC input. This unit features a NEMA 4X enclosure making it dust, water and corrosion resistant. It also features a flowmeter with adjustable flow and a low flow alarm which warns of any obstructions or restrictions in the flow system. Combustibles, oxygen, hydrogen sulfide and carbon monoxide versions are available with or without a 4-20 mA transmitter. The 35-3000RK is also available with both LEL and oxygen sensors in one unit.

The 35-3000RK is capable of single person calibrations and remote sampling at up to 5,000 ft. from a controller, and interfacing to any RKI or third party control system (utilizing a 4-20 mA feedback signal). Multigas versions of this efficient sample draw system are available with up to four sensors, LEL, O₂, H₂S and CO all in one enclosure. This is a very cost effective way of monitoring for several gases that may be in the same place.

35-3000RK Model

Part #	LEL 35-3000RKA-LEL	O2 35-3000RKA-O2	H2S 35-3000RKA-H2S	CO 35-3000RKA-CO	H2 35-3000RKA-11
Min Operating Voltage	23 VDC				
Max Operating Voltage	30 VDC				
Max Current Draw	250 mA	200 mA	200 mA	200 mA	250 mA
Measuring Range	0-100% LEL	0-25% Vol.	0-100 ppm	0-500 ppm	0-2000 ppm
Signal Output	4 mA at 0% LEL 20 mA at 100% LEL	4 mA at 0% 20 mA at 25%	4 mA at 0 ppm 20 mA at 100 ppm	4 mA at 0 ppm 20 mA at 500 ppm	4 mA at 0 ppm 20 mA at 2000 ppm (Linear)
Sensor Response Time	30 seconds to 90% of concentration	20 seconds to 90% of concentration	45 seconds to 90% of concentration	30 seconds to 90% of concentration	
Operating Environment					
Location	Indoor or outdoor				
Temperature	-4 – 122° F (-20 to 50°C)				
Humidity	0 – 99% RH non condensing				5 – 95% RH, non condensing
Housing	Wall mounting grey polycarbonate with hinged cover. NEMA 4X				
Sensor Type	Catalytic combustion	Galvanic cell	Electrochemical		Metal Oxide Semiconductor
Sensor Life	1 to 2 years normal service	2 years normal service	2 years normal service	2 to 3 years normal service	5 to 10 years (typical)
Dimensions	Height		8.5"	216 mm	
	Width		7.0"	178 mm	
	Depth		4.3"	109 mm	
Sampling Method	Sample draw pump				
Maximum Sample Length	100 Ft.				
Sample Connections	1/4" OD rigid tubing (inlet and exhaust)				
Display	Flow meter, LED's for operational status; pilot, fail				
Warranty	One year, materials and workmanship				

Specifications subject to change without notice.

Multi-gas Versions	
LEL/O2/H2S/CO	35-3010RKA-01
LEL/O2/H2S	35-3010RKA-02
LEL/O2/CO	35-3010RKA-03

Non-transmitter versions:	
LEL	35-3000RK-LEL
O2	35-3000RK-OXY
LEL/O2	35-3000RK-LEL/O



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