



Explosion Proof

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



	LEL General Purpose	LEL H2 Specific	H2 PPM Hydrogen	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	CH4 Methane IR	HC Hydrocarbons IR	CO2 Carbon Dioxide IR
 Part #	65-2405RK	65-2451RK	65-2443-100 65-2443-500 65-2443-1000 65-2443-2000	65-2322RK	65-2331RK	65-2336RK	65-2394RK-CH4	65-2394RK-HC	65-2396RK-02 65-2396RK-03 65-2396RK-05 65-2396RK-10
	65-2405RK-05	65-2451RK-05							
Sensor	Catalytic		Metal oxide semiconductor	Galvanic cell	Electrochemical		Infrared		
Measuring Range	0-100% LEL	0-100% LEL (H2 Specific)	0-100 ppm 0-500 ppm 0-1000 ppm 0-2000 ppm	0-25% Vol.	0-100 ppm	0-300 ppm	0-100% LEL		0 - 5000 ppm 0 - 5% Vol. 0 - 50% Vol. 0 - 100% Vol.
Lower Detectable Limit (LDL)	2% of full scale		6% of full scale	0.1% Vol.	2% of full scale				
Accuracy (whichever is greater)	± 5% of reading or ± 2% LEL		± 10% of full scale	± 0.5% O2	± 5% of reading ± 2 ppm H2S	± 5% of reading ± 5 ppm CO	± 5% of reading or ± 2% of full scale		
Response Time (T-90)	30 Seconds	20 Seconds	45 Seconds	90 Seconds	60 Seconds	90 Seconds	30 Seconds		
Max Current Draw (24VDC)	70 mA (power wires) 25 mA (signal wires) 3 wires			25 mA max, 2 wires			60 mA (power wires) 25 mA (signal wires) 3 wires		
Life Expectancy	2 to 3 years with normal exposure to flammable gas	3-5 years with normal service	5 years plus with normal service	2-3 years with normal service			5 years plus with normal service		
Operating Environment									
Location	Indoor or outdoor. Explosion proof for Class I, Div. 1, Groups B, C, and D.								
Temperature	-40°F to 167°F -40°C to 75°C		-4°F to 104°F -20°C to 40°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	-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								
Controls									
Zero	Sets transmitter output to 4 mA with zero output from sensor								
Span	Sets transmitter output to proper level when span gas is applied								
Output	4 - 20 mA signal								
Operating Voltage	11 VDC to 30 VDC		19 VDC to 30 VDC	19-30VDC (250 OHMS impedance max)			11 VDC to 30 VDC		
Approvals	65-2405RK UL	65-2451RK UL	65-2443-500 UL 65-2443-1000 UL 65-2443-2000 UL	CSA NRTL			c UL US		
	65-2405RK-05 CSA	65-2451RK-05 CSA	65-2443-500-05 CSA 65-2443-1000-05 CSA 65-2443-2000-05 CSA						
Controllers	Compatible with the following controllers: Beacon 110, Beacon 200, Beacon 410A, and 800, also PLC and DCS systems								
Warranty	One year materials and workmanship								

Toxic Gas Transmitters

Class I, Div. 2

	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	Toxics See chart below	CO2 Carbon Dioxide
 Part #	65-2320RK	65-2330RK	65-2335RK	See chart below	65-2397RK-02 65-2397RK-03 65-2397RK-05 65-2397RK-10
Sensor	Galvanic cell	Electrochemical			Infrared
Measuring Range	0-25% Vol.	0-100 ppm	0-300 ppm	See chart below	0 - 5000 ppm 0 - 5% Vol. 0 - 50% Vol. 0 - 100% Vol.
Lower Detectable Limit (LDL)	0.1% Vol.	2% of full scale			
Accuracy (whichever is greater)	± 0.5% O2	± 5% of reading ± 2 ppm H2S	± 5% of reading ± 5 ppm CO	± 10% of reading or ± 5% of full scale	± 5% of reading or ± 2% of full scale
Response Time (T-90)	20 Seconds	45 Seconds	30 Seconds	60 Seconds	30 Seconds
Max Current Draw (24VDC)	25 mA max, 2 wires				60 mA (power wires) 25 mA (signal wires) 3 wires
Life Expectancy	2 years normal service	2 to 3 years with normal service			5 years plus with normal service
Operating Environment					
Location	Indoor 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			5-95% RH	0 - 99% RH non condensing
Housing					
Housing J-Box	Cast aluminum, explosion-proof				
Sensor	Plastic or aluminum				
Controls					
Zero	Sets transmitter output to 4 mA with zero output from sensor				
Span	Sets transmitter output to 20 mA with full scale output from sensor				
Operating Voltage	19 VDC to 30 VDC				
Output	4-20 mA signal				
Controllers	Compatible with the following controllers: Beacon 110, Beacon 200, Beacon 410A, and 800, also PLC and DCS systems				
Warranty	One year materials and workmanship				

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

 ESM-01	 CT-7	S2 Non Explosion Proof Toxic Assemblies				
		Part Number With J-Box	Gas	Range	Resolution	Sensor Type
		65-2340RK-NH3	Ammonia (NH3)*	0 - 75.0 ppm	0.1 ppm	ESM -01
		65-2341-NH3-75	Ammonia (NH3)	0 - 75.0 ppm	0.1 ppm	CT-7
		65-2341-NH3-1	Ammonia (NH3)	0 - 100 ppm	1 ppm	CT-7
		65-2341-NH3-2	Ammonia (NH3)	0 - 200 ppm	1 ppm	CT-7
		65-2341-NH3-5	Ammonia (NH3)	0 - 500 ppm	1 ppm	CT-7
		65-2340RK-AsH3	Arsine (AsH3)	0 - 1.50 ppm	0.01 ppm	ESM -01
		65-2341-CL2-3	Chlorine (Cl2)	0 - 3.00 ppm	0.01 ppm	CT-7
		65-2341-CL2-05	Chlorine (Cl2)	0 - 5.00 ppm	0.02 ppm	CT-7
		65-2341-CL2-10	Chlorine (Cl2)	0 - 10.0 ppm	0.1 ppm	CT-7
		65-2341-CLO2-1	Chlorine Dioxide (ClO2)	0 - 1.00 ppm	0.01 ppm	CT-7
		65-2340RK-HCN	Hydrogen Cyanide (HCN)	0 - 15.0 ppm	0.1 ppm	ESM -01
		65-2340RK-PH3	Phosphine (PH3)	0 - 1.00 ppm	0.01 ppm	ESM -01
		65-2340RK-SO2	Sulfur Dioxide (SO2)	0 - 6.00 ppm	0.01 ppm	ESM -01

* Sensor being phased out, use CT-7 type when possible.

*Other ranges available, please consult factory