

Specifications - Explosion Proof Transmitters (Class I, Div. 1, Groups B, C, D)										
	Part#	Combustibles		LEL H2 Specific	O2 Oxygen	H2S Hydrogen Sulfide	CO Carbon Monoxide	CH4 Methane	HC Hydrocarbons	CO2 Carbon Dioxide
		LEL	PPM							
	UL	65-2640RK	65-2647RK	65-2641RK	65-2643RK-05	65-2645RK-05	65-2646RK-05	65-2649RK-CH4	65-2649RK-HC	65-2660RK-02
	CSA	65-2640RK-05	65-2647RK-05	65-2641RK-05						65-2660RK-03
Sensors		Catalytic			Galvanic cell	Electrochemical		Infrared		
Measuring Ranges	0 – 100% LEL	0 – 9000 ppmCH4	0 – 100% LEL	0 – 25.0% Vol.	0 – 100 ppm	0 – 300 ppm	0 – 100% LEL	0 – 100% LEL	-02	0 – 5000 ppm
							0 – 100% Vol.		-03	0 – 5% Vol.
									-05	0 – 50% Vol.
									-10	0 – 100% Vol.
Resolution	1% LEL	20 ppm	1% LEL	0.1% Vol.	1 ppm		1% LEL / 1% Vol.		20 ppm / 0.01% Vol / 0.1% Vol. / 1% Vol.	
Lower Detectable Limit (LDL)	2% of full scale			0.1% Vol.	2% of full scale					
Max Current Draw (24VDC)	160 mA with alarm 1 and alarm 2 active and all relays energized			125 mA with alarm 1 and alarm 2 active and all relays energized			160 mA with alarm 1 and alarm 2 active and all relays energized			
Response Time (T-90)	35 Seconds or less			90 Seconds or less	60 Seconds or less	90 Seconds or less	30 Seconds or less			
Life Expectancy	2 to 3 years with normal service		3 to 5 years with normal service	2 to 3 years with normal service			5 years plus with normal service			
Accuracy (which ever is greater)	± 5% of reading or ± 2% of full scale			± 0.5% Vol. O2	± 5% of reading or ± 2 ppm H2S	± 5% of reading or ± 5 ppm CO	± 5% of reading or ± 2 % of full scale			
Weather Resistant	Patented water repellent sensor coating									
Alarms										
Alarm Settings	Two fully programmable alarm set points, increasing / decreasing, latching / self-resetting, on delays, off delays, normally energized or de-energized									
Alarm Indication	Visual LEDs. Alarm 1, Amber; Alarm 2, Red; Fail, Red									
Relays	5 amp form 'C' contacts for alarm 1, alarm 2, and fail									
Physical										
Dimensions	Height: 8.5" (215 mm), Width: 5.2" (132 mm), Depth: 4.5" (114 mm)									
Display	Alphanumeric OLED display. 8 characters per line; 2 lines for gas concentration readout, plus user-friendly calibration and setup									
Enclosure	Explosion proof for Class I, Div 1, Groups B, C, D.									
Enclosure Rating	NEMA 4X, explosion proof, watertight, cast aluminum with o-ring seal and epoxy powder coating									
Controls	Magnet used for calibration functions. Calibrates without opening the housing. Internal push-button controls also available for calibration and setup									
Operating Environment										
Operating Temperature	-40°F to 167°F			-4°F to 113°F	-40°F to 104°F	23°F to 104°F	-40°F to 122°F			
	-40°C to 75°C			-20°C to 45°C	-40°C to 40°C	-5°C to 40°C	-40°C to 50°C			
Relative Humidity	5 – 95% RH non-condensing									
Location	Indoor or outdoor. Explosion proof for Class I, Div. 1, Groups B, C, D.									
Operating Voltage	10 VDC – 30 VDC									
Outputs										
Analog	Linear 4-20 mA signal, into 1000 ohms impedance max (24DC), 0 – 500 ohms max (12VDC) corresponding to 0 – full scale									
Digital	Modbus RTU output standard, fully configurable, 2-wire RS-485, 1200 to 19.2k baud									
Approvals	65-2640RK UL		65-2641RK UL	C CSA US			C UL US			
	65-2640RK-05 C CSA US		65-2641RK-05 C CSA US							
Controllers	Beacon 110, Beacon 200, Beacon 410A, Beacon 800 as well as most DCS / PLC systems									
Warranty	One year material and workmanship									