

PRODUCT OVERVIEW

Synkera Technologies is developing a unique and novel new personal gas detector. This innovative technology combines leading edge sensing technology (solid polymer electrolyte sensors with electrolyte that is vastly improved over traditional Nafion) with advanced, small form factor electronics. These novel sensors are lower cost, more robust than traditional electrochemical sensors, won't dry out and have excellent selectivity, sensitivity and performance. The initial development focus is on hydrogen sulfide and carbon monoxide analytes. Many other gases (including nitrogen oxides, ethanol, sulfur dioxide and chlorine among others) are planned for future product release.

FEATURES

Technology	Solid-State Electrochemical Sensor
Nominal Range	0-50 ppm
Factory Low Alarm	10 ppm
Factory High Alarm	15 ppm
Approvals	Intrinsic Safe rating
Datalogging	None
RFI protection	Yes
Power Required	"Coin" Battery
Continuously ON	YES
Confidence Indicator	Green LED every 30 seconds
Alarm Type	
Visual	Red LED
Audio	75-80 dB @ 1 ft
Vibratory	None
Self Test	Visual (LED)
Battery Status	Remaining life LED(s)
PRICE	<\$100
T90 Response	< 30 seconds
Temp Range	-20 to +40 C
Humidity Range	0 to 95% RH
	Non condensing
Size	3.2 X 2.1 X 0.125 in
Weight	< 25 grams
Operating Life	24 months



Figure 1. Solid State Sensor Elements (patent pending). These sensors offer outstanding performance at low and high humidity in a small, rugged package, ideal for surface mount integration with related electronic components

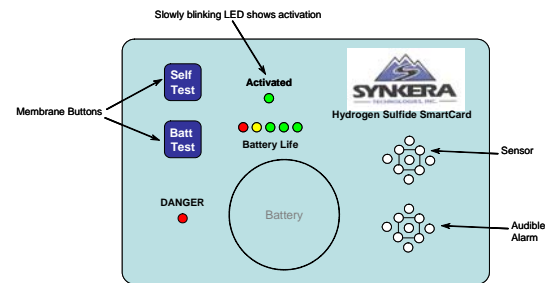


Figure 2. Proposed Alert Card Design. A very small, lightweight instrument, which takes advantage of the features of Synkera's unique electrochemical sensors.

PARTNERSHIP DEVELOPMENT

Partnerships are of interest for the continued development and commercialization of the Gas Alert Card. This includes the development of sensors for the detection of other gases, sensor evaluation, and instrument development, product introduction and distribution. To discuss further opportunities, or if you would like additional information, please contact:

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