# SENSALERI PLUS

Universal Point Gas Detector Accepting Combustible (Infrared or Catalytic), Toxic, and Oxygen Gas Sensors



## **Highest Reliability and Function**

Predictive Sensor End-of-Life Indication
Missing or Non-functional Sensor Indication
Sensor Test-On-Demand, with On-board Gas Generator

## **Intrinsically Safe Sensor Head**

Shop Calibrate and Hot-swap Gas Sensors in Classified Areas Mount Sensor up to 100 ft./30 m. Away Without Rigid Conduit

## Intelligent SensAlert Plus Sensors

Auto-recognition and Set-up from Sensor Memory Provides
Operating Parameters and Diagnostics for All *Plus* Transmitters

## **International Performance Approvals**

Performance Tested and Certified to FM and ATEX Standards Unrestricted Hazardous Classified Area Installation and Operation

### Flexible Installation or Retrofit

2-Wire and 3-Wire Transmitters with Enclosure Options Non-intrusive Configuration and Maintenance Interface Remote Sensor / Gassing, Duct Mount and Sample Draw Configurable Alarms: Fault Conditions and Test-on-Demand

### **Increased Reliability**

Intelligent and dependable firmware monitors the intelligent *Plus* sensor for changes that could effect performance. Sensor condition and maintenance notifications are displayed locally and can be sent to a controller or facility monitoring system via on-board relays, a virtual relay (assignable to a fault current), RS-485 Modbus, or HART. This thorough monitoring provides increased reliability.

#### Simple to Install & Maintain

The SensAlert *Plus* Intrinsically Safe sensor head can be remote mounted up to 100 feet (30m) from the transmitter providing greater flexibility to position the transmitter in an personnel-accessible location while positioning the sensor closer to potential hazards. A wide range of sensors, accessories and remote gassing/sampling systems further simplify maintenance and provide installation flexibility.

#### **Reduced Cost of Ownership**

Shop or field calibrate, then swap sensors under power to minimize maintenance and calibration time. A large backlit alphanumeric display with a non-intrusive user interface allows for configuration, setup, and data review without declassifying a hazardous area. SensAlert *Plus is a* universal transmitter allowing facility standardization across gas types, sensor technologies, and sensor ranges.





## SENSALERIPLUS

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**Main Display** 

Main Menu
>Calibration Mode
Maintenance Mode
Data Review
Test On Demand
System Configuration
Lost Password

Robust firmware within SensAlert Plus monitors the intelligent Plus

notifications are displayed locally on the large alphanumeric display and can be sent to a controller

or facility monitoring system via on-board relays, a virtual relay

(assignable to a fault current), RS-485 Modbus, or HART. Plus

series sensors store operating

allows for auto-recognition and

setup once installed into the

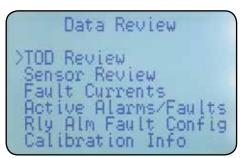
sensor head.

parameters and setup information within non-volitile memory that

sensor for changes that could effect performance. Sensor

condition and maintenance

Main Menu

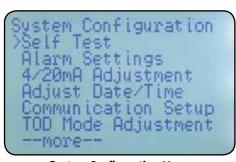


Data Review Menu

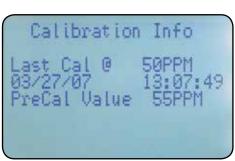
Sensor Data Review

100

Gas Name H2S



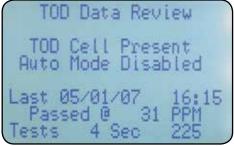
**System Configuration Menu** 



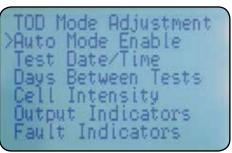
**Sensor Data Review** 

Sensor Life Remaining

**Calibration Information Screen** 



Test-on-Demand™ Data Review



**TOD Mode Adjustment** 







## Sensation PLUS

SensAlarm *Plus* is a complete single point gas detection system comprised of a gas detection transmitter, sensor, power supply, outputs, and annunciation. This system is extremely cost-effective and easy to install. SensAlarm Plus is compatible with all SensAlert Plus sensors and accessories.





#### **Ordering Information**

Part Number	Wiring	Division/ Installation	Backlit Display	Enclosure	Remote Mount Compatible	Enclosure Material	Relay Included	Option Card Compatible <sup>1</sup>
820-0208-01 2	2-wire	Div. 2		Fiberglass		Fiberglass		
820-0202-01	3-wire	Div. 2	✓	Fiberglass	✓	Fiberglass	<b>√</b> 1	
820-0202-03	3-wire	Div. 2	✓	Fiberglass	✓	Fiberglass	<b>√</b> 1	<b>√</b> 1
820-0202-04 3	3-wire	I.S.	✓	Standard	✓	Fiberglass		
820-0209-01 2	2-wire	Div. 2		Standard		Aluminum		
820-0204-01	3-wire	Div. 2	✓	Standard	✓	Aluminum	<b>√</b> 1	
820-0204-02	3-wire	Div. 2	✓	Long Dome	✓	Aluminum	<b>√</b> 1	<b>√</b> 1
820-0204-04 3	3-wire	I.S.	✓	Standard	✓	Aluminum		
820-0207-01 2	2-wire	Div. 1, XP		Standard		Aluminum		
820-0206-01	3-wire	Div. 1, XP	✓	Standard	✓	Aluminum	<b>√</b> 1	
820-0206-02	3-wire	Div 1, XP	✓	Long Dome	✓	Aluminum	<b>√</b> 1	<b>√</b> 1

Environmental	
Temperature (Transmitter):	40°F to 158°F /-40°C to 70°C
Humidity (Transmitter)	0-90% RH, non-condensing
Temperature (Sensor):	See Sensor Data Sheets

Humidity (Sensor): .....See Sensor Data Sheets Moisture Resistance......IP54; IP56 with optional rainshield

#### **Enclosure Options**

NEMA 4X:	Polycarbonate
Dimensions: . 7.5" W x 12.6" H x	6.2" D / 190 mm W x 320 mm
	H x 157 mm D
Weight Range:	5.5-7.2 lbs /2.5-3.3 kg
Explosion-proof	Copper-free, Cast Aluminum
Physical: .5.5" W x 12.3" H x 4.6	5" [6.4"] D / 140 mm x 312 mm
	x 117 mm [163 mm] D
Weight Range:	6.1-8.7 lbs / 2.8-4.0 kg
Note: Brack	ets indicate large dome depth.

#### **Approval Ratings**

Explosion Proof	NEC and CEC Class I Div 1, Grps A, B, C, D;
	Class II Grps E, F, G; Class III T4
Flame proof	ATEX EEx d[ia] IIC T4 II 2 [1] G
Non-Incendive	NEC and CEC Class I Div 2, Grps A, B, C, D;
	Class II Grps E, F, G; Class III T4

Intrinsic Safety..... NEC and CEC Class I Div 1, Grps A, B, C, D; Class II Grps E, F, G; Class III T4 ATEX EEx ia IIC T4 II 1 G CE Mark...... ATEX Directive 94/9/EC

IMETRO .....IEC 60079-0:2006, IEC 60079-11:1999, IEC 60079-15:2007



ATEX E

