# SENSALERI PLUS







# SENSALERT

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.



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

Main Display

Main Menu

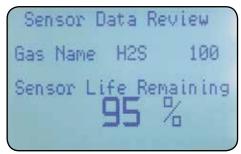
Main Menu



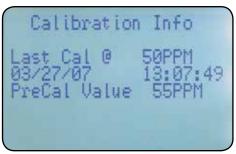
**Data Review Menu** 

System Configuration
>Self Test
Alarm Settings
4/20mA Adjustment
Adjust Date/Time
Communication Setup
TOD Mode Adjustment
--more--

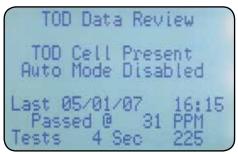
**System Configuration Menu** 



**Sensor Data Review** 



**Calibration Information Screen** 



Test-on-Demand<sup>™</sup> Data Review

TOD Mode Adjustment
Auto Mode Enable
Test Date/Time
Days Between Tests
Cell Intensity
Output Indicators
Fault Indicators

**TOD Mode Adjustment** 



### Sensalarm 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.



# SENSALERT PLUS

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Technical Specification	IS
Sensors	
Gas Sensors: Electroc	hemical, Infrared, Catalytic Bead
Test-On-Demand Modules:	Type C and Type S
Electrical	
Voltage/Power:	
	20 mA
3-Wire 24 VDC (12-30 VDC): .	90 mA
With Opt. Relay Card and	
combustible sensors:	300 mA
Output and load resistance with 2	4 VDC
at transmitter terminals:	
3 wire 4-20 mA:	600 Ω minimum
2-wire 4-20 mA:	350 Ω minimum
Relay:3-Wire On	ly - One SPDT Configurable Relay
Optional Card:Th	ree (3) SPDT Configurable Relays
Contact Ratings:	5 Amps at 115 VAC or
	30 VDC Resistive
Communication Link	4-20mA current, non-isolated
2 or 3-wire	options, RS-485 (Modbus), HART
Controls	
Magnetic Keypad:	OK, << (Go Back), ▲, ▼
Security:Passwor	rd Protected Configuration Menu
Displays	
LEDs:Four (4)	Red, corresponding to magnetic
	nd Alarm Relays when equipped.
Graphic LCD:128	8 by 64 pixel screen (backlight on
3-wire tran	smitters); displays Concentration
and Mea	asuring Units, Gas Name or Type,
Sensor S	pan, Date and Time, Tag Number
ar	nd System messages or Warnings
Environmental	
Temperature (Transmitter):	
Humidity (Transmitter)	
Temperature (Sensor):	
Humidity (Sensor):	See Sensor Data Sheets
Moisture ResistanceIP	954; IP56 with optional rainshield
Enclosure Options	
NEMA 4X:	
	7.5" W x 12.6" H x 6.2" D
	) mm W x 320 mm H x 157 mm D
	5.5-7.2 lbs /2.5-3.3 kg
Explosion-proof	
Physical:	5.5" W x 12.3" H x 4.6" [6.4"] D
	6.1-8.7 lbs / 2.8-4.0 kg
Note: Bra	ickets indicate large dome depth.
Approval Ratings	
Explosion Proof	
	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,
(Enclosed Break)	Grps A, B, C, D;
	Class II Grps E, F, G; Class III T4
	ATEX EEx nC [ia] IIC T4 II 3 [1] G
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 60	0079-0:2006, IEC 60079-11:1999,
	IEC 60079-15:2007



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