

SENSALERT PLUS



**Loop Powered
2-Wire Universal
Gas Detector with
Remote Sensor
Mount Capability.**

+ Detection at every point.

SENSIDYNE
Industrial Health & Safety Instrumentation

SENSALERT[®] PLUS

Universal Point Gas Detector Accepting Toxic and Oxygen Gas Sensors



Highest Reliability and Functionality

- 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 Transmitter 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

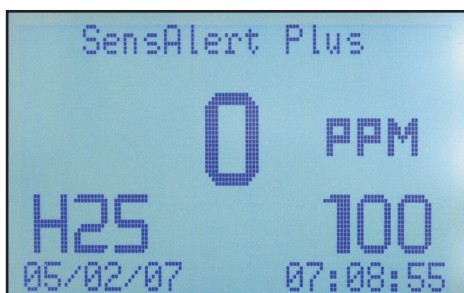
Intelligent and dependable firmware monitors the intelligent *Plus* sensor for changes that could effect performance. Sensor condition and maintenance notifications are displayed locally and can be sent to a controller or facility monitoring system via the 4-20 mA signal.

Simple to Install & Maintain

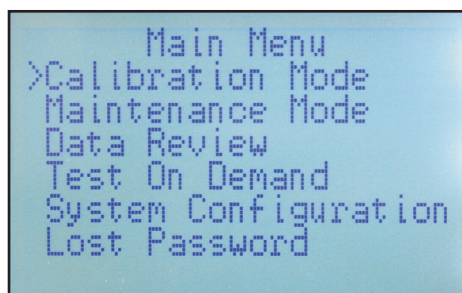
The SensAlert *Plus* Intrinsically Safe sensor head can be remote mounted up to 100 feet (30m) from the transmitter providing greater flexibility to position the transmitter in an personnel-accessible location while positioning the sensor closer to potential hazards. A wide range of sensors, accessories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

Reduced Cost of Ownership

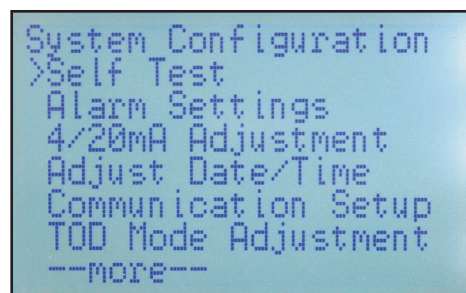
Shop or field calibrate, then swap sensors under power to minimize maintenance and calibration time. A large alphanumeric display with a non-intrusive user interface allows for configuration, setup, and data review without declassifying a hazardous area. SensAlert *Plus* is a universal transmitter allowing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



Home Display



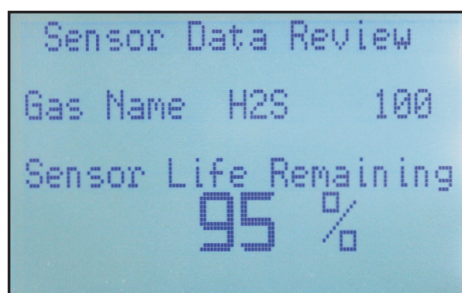
Main Menu



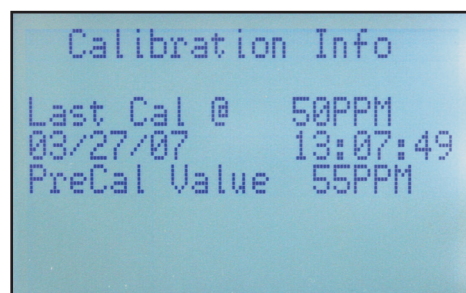
System Configuration Menu



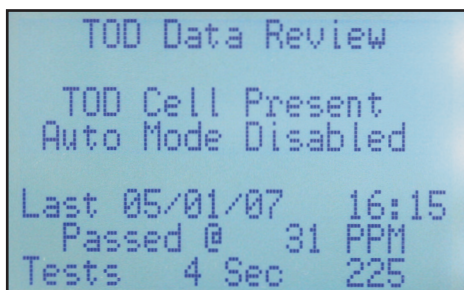
Data Review Menu



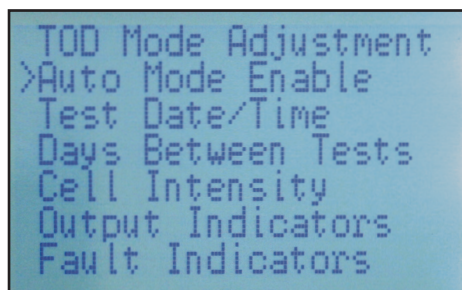
Sensor Data Review



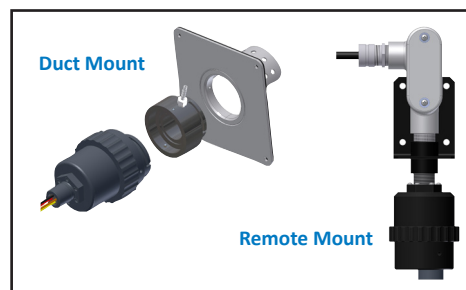
Calibration Information Screen



Test-on-Demand™ Data Review



TOD Mode Adjustment



Remote mount options allow sensor placement closer to potential leak sources.

Installation Note

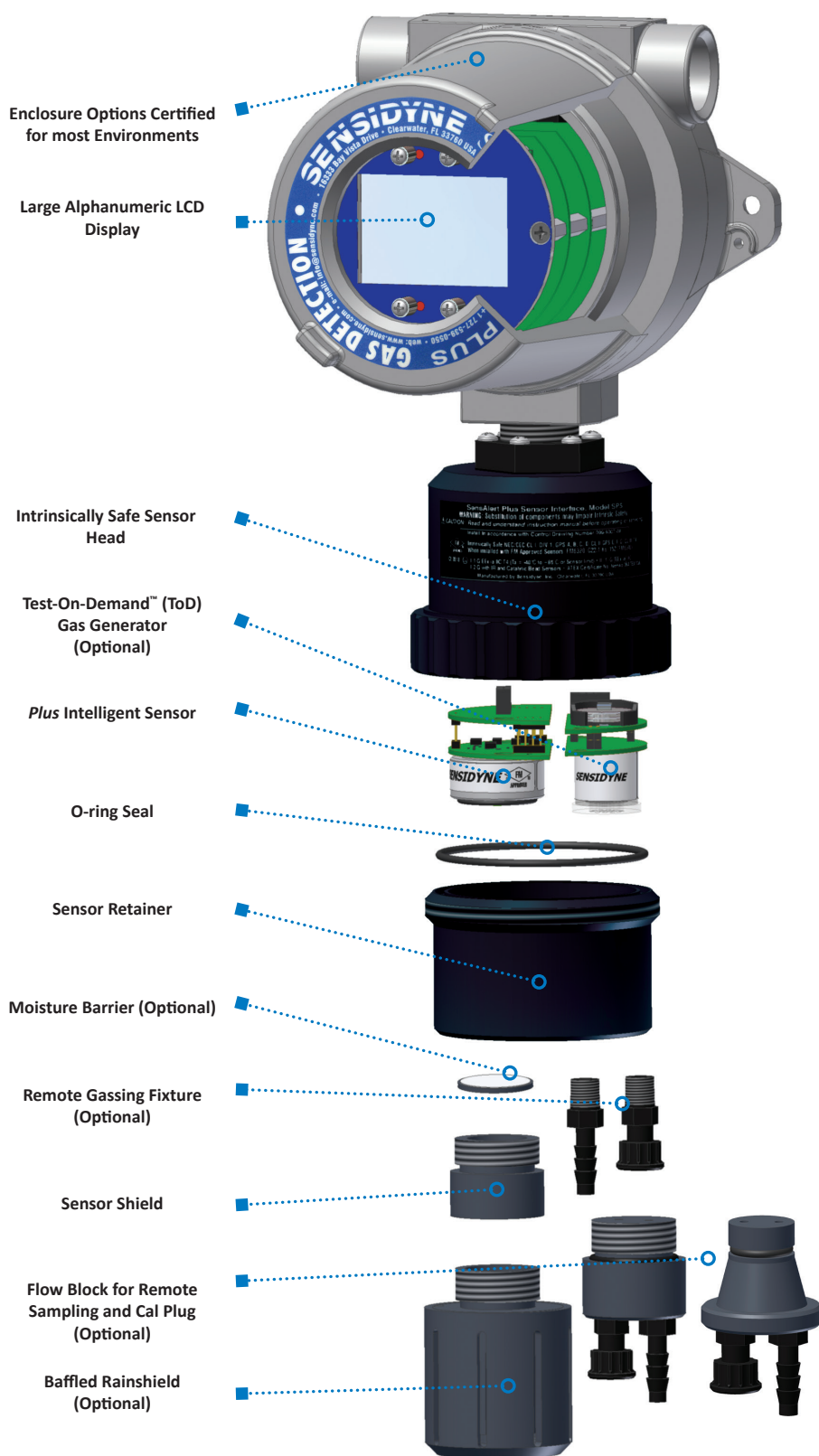
2 wire Transmitter with remote sensor kit allows for the sensor to be mounted up to 100 feet away from the transmitter. The remote sensor requires that there is a 0 volt difference between the ground potential at the transmitter and at the power source. If the ground potential is not 0 volts, an isolation barrier needs to be used. This isolator requires DC power from the DCS or control station and a 100Ω load resistor for the 4-20 mA loop which protects against ground (dc) potential from interfering with the I.S. characteristics.

Ordering Information

Description	Part Number
SensAlert Plus 2-Wire Transmitter - Division 2	820-0203-01
SensAlert Plus 2-Wire Transmitter - Division 1, XP	820-0205-01
SensAlert Plus 2-Wire Remote Sensor Kit - Division 2, GP	821-0207-01
SensAlert Plus 2-Wire Remote Sensor Kit - Division 1	821-0207-02
SensAlert Plus Remote Calibration Adapter	821-0218-01
Galvanic Isolation Barrier for SensAlert Plus	821-0224-01

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Technical Specifications

Sensors

Gas Sensors: All Plus Series Toxic and Oxygen Sensors (No CO2)
Test-On-Demand Modules: Type C and Type S

Electrical

Voltage/Power:
2-Wire 24 VDC (18-30 VDC): 20 mA

Output and load resistance with 24 VDC
at transmitter terminals:
2-wire 4-20 mA: 250 Ω maximum
Communication Link 4-20mA current, non-isolated
Check points Enable reading of
output current as 40–200 mV.

Controls

Magnetic Keypad: OK, << (Go Back), ▲, ▼
Security: Password Protected Configuration Menu

Displays

Graphic LCD: 128 by 64 pixel screen; displays Concentration
and Measuring Units, Gas Name or Type,
Sensor Span, Date and Time, Tag Number
and System messages or Warnings

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
Div. 2 / Explosion-proof Copper-free, Cast Aluminum
Physical: 5.5" W x 12.3" H x 4.6" [6.4"] D
140 mm W x 312 mm H x 117 mm [163 mm] D
Weight Range: 6.1-8.7 lbs / 2.8-4.0 kg
Note: Brackets 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;
(Enclosed Break) 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

