

# SENSALARM PLUS

## The Advanced All-In-One Gas Detection System

Shown with optional second strobe

### All-In-One Gas Monitor

Advanced Single Point Gas Detection System  
1 or 2 Double-flash Strobes, Horn and Reset  
Optional Battery Back-up

### Intelligent Plus Sensors

Portable Sensor Easily Transfers Calibration Data and Sensor Info  
Percent Remaining Sensor Life  
Auto-recognition and Configuration  
Uploads Gas Name & Range, Alarms, and Set Points  
Time-stamped Min/Max Concentration and Calibration Data

### Flexible Installation or Maintenance

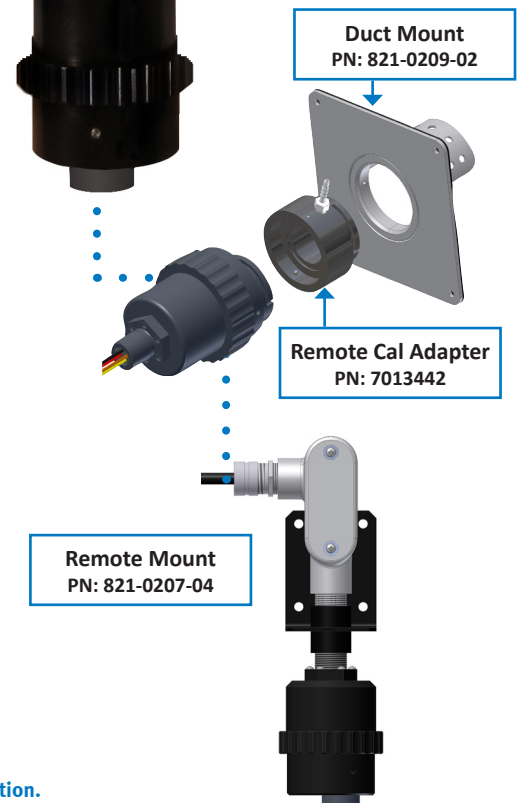
Low Install Cost / Non-intrusive Configuration / Maintenance Interface  
Remote Sensor / Gassing, Duct Mount or Sample Draw /  
Mount Sensor up to 100 Feet Away with 4 Conductor Cable



SensAlarm Plus is a complete gas detection system in one enclosure. The system is fully equipped with strobe, horn, high-visibility four-digit LED Display and LCD Display / Interface. At the core of SensAlarm Plus is an advanced Intelligent Sensor platform with non-volatile memory for all key application variables and sensor data. A non-intrusive user interface enables operational customization and access to sensor life parameters, TWA alarms, calibration data and other information with date and time recording.

The SensAlarm Plus sensor head is universal in that it accepts all Sensidyne Plus sensors. Monitoring in high, low or adjacent locations is simplified by remote mounting the sensor head using 4 conductor cable. The automatic uploading of variables, alarm values and sensor information when a sensor is plugged in greatly simplifies installation and maintenance. Transportable calibration allows sensor calibration at the point of installation or in a workshop, then hot-swapping the sensor in the field.

SensAlarm Plus is the ideal gas monitoring solution for labs, gas cylinder storage, industrial work areas, control room protection or any other applications where users benefit from a packaged gas detection system that works with all SensAlert Plus sensors.



# SENSALARM PLUS

The Advanced All-In-One Gas Detection System

## Ordering Guide

### INSTRUMENTS & ACCESSORIES

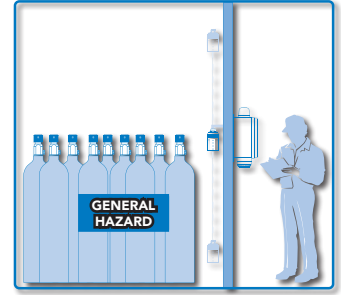
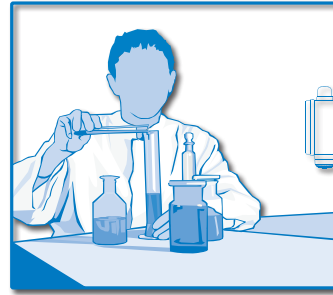
SensAlarm Plus Monitor .....	820-0301-01
SensAlarm Plus Monitor with 2nd Strobe .....	820-0301-03
SensAlarm Plus Monitor with Battery Back-up.....	820-0301-02
SensAlarm Plus Monitor with Battery Back-up and 2nd Strobe ....	820-0301-04
Remote Sensor Kit .....	821-0301-01

### SENSORS

Ammonia – 50 ppm.....	823-0201-22
Ammonia – 100 ppm .....	823-0201-21
Ammonia – 300 ppm .....	823-0201-41
Ammonia – 500 ppm .....	823-0201-42
Carbon Dioxide IR – 5.00% Vol. ....	823-0205-53
Carbon Monoxide – 100 ppm low interference to H <sub>2</sub> .....	823-0219-41
Carbon Monoxide – 500 ppm low interference to H <sub>2</sub> .....	823-0219-42
Carbon Monoxide – 1000 ppm low interference to H <sub>2</sub> .....	823-0219-43
Carbon Monoxide – 100 ppm.....	823-0219-23
Carbon Monoxide – 500 ppm.....	823-0219-22
Chlorine – 5.00 ppm .....	823-0202-22
Chlorine – 10.0 ppm .....	823-0202-21
Chlorine – 20.0 ppm .....	823-0202-23
Chlorine (H <sub>2</sub> S Resistant) – 5.00 ppm .....	823-0202-42
Chlorine (H <sub>2</sub> S Resistant) – 10.0 ppm .....	823-0202-41
Chlorine (H <sub>2</sub> S Resistant) – 100 ppm.....	823-0202-43
Chlorine Dioxide – 1.00 ppm .....	823-0239-41
Combustibles IR – 100% LEL.....	823-0211-51
Combustibles Catalytic Bead, General – 100% LEL.....	823-0211-31
Comb. Catalytic Bead H <sub>2</sub> , ETO, Acetylene – 100% LEL .....	823-0211-33
Ethylene Oxide (ETO) – 10.0 ppm.....	823-0245-21
Fluorine – 10.0 ppm .....	823-0215-21
Fluorine – 25.0 ppm .....	823-0215-22
Hydrogen Chloride – 10.0 ppm.....	823-0208-21
Hydrogen Chloride – 20.0 ppm.....	823-0208-22
Hydrogen Cyanide – 20.0 ppm .....	823-0203-21
Hydrogen Fluoride – 10.0 ppm.....	823-0207-21
Hydrogen Fluoride – 20.0 ppm.....	823-0207-22
Hydrogen Specific Electrochemical LEL – 100% LEL.....	823-0210-61
Hydrogen Specific PPM – 1000 ppm .....	823-0210-21
Hydrogen Sulfide – 10 ppm .....	823-0206-23
Hydrogen Sulfide – 50 ppm .....	823-0206-22
Hydrogen Sulfide – 100 ppm .....	823-0206-21
Nitric Oxide – 100 ppm.....	823-0242-21
Nitrogen Dioxide – 10.0 ppm.....	823-0221-21
Oxygen – 25.0%Vol.....	823-0240-22
Ozone (also PLUS 1.00 ppm) – 2.00 ppm.....	823-0243-22
Phosgene – 1.00 ppm.....	823-0247-21
Sulfur Dioxide, H <sub>2</sub> S Filtered – 10.0 ppm.....	823-0218-22
Sulfur Dioxide, H <sub>2</sub> S Filtered – 20.0 ppm.....	823-0218-21

MANY ADDITIONAL SENSOR TYPES—

Contact factory for additional sensor information or specifications.



## Specifications

### SENSORS

Gas Sensors ..... All Sensidyne Plus sensors

ToD: ..... Test-On-Demand available for specific toxic sensors.

### ELECTRICAL

Design ..... Microprocessor based with nonvolatile memory.  
Automatically resumes operation after power failure.

Power ..... 100-240 VAC, 50/60 Hz or 20-30 VDC.

Battery ..... Optional battery back-up available

Outputs ..... 4-20 mA into 600 ohms; Optional  
RS-485, Modbus RTU Protocol, HART

Strobe ..... Red lens flashing strobe (NEMA 4X) standard with optional  
dual strobes with red and amber strobe.

Horn..... 95 dB piezo horn

Relays.....One (1) SPDT Configurable Fault Relay  
(Standard Configuration Energized/Failsafe)  
Three (3) SPDT Configurable Relays  
Contact Ratings: 6 Amps at 120 VAC or 28 VDC Resistive

### ENCLOSURE

Material ..... Fiberglass.

Description ..... UL listed, NEMA 4X Rated

Type ..... Wall mount with tabs & threaded inserts.

Overall Size ..... 9.75 (W) by 20 (H) by 6.4 (D) Inches,  
24.8 (W) by 50.8 (H) by 16.3 (D) cm.

Weight ..... 9.75 - 13.75 lbs. (4.4 - 6.3 Kg) including sensor

Conduit ..... 3/4 inch EMT connector supplied (side).

Temperature... -4° to 122°F (-20° to 50°C).

Humidity ..... 0-90 %RH, non-condensing.

Location ..... Indoor or Outdoor

Sensor Head ... Sensor head enclosure and retaining ring are black anodized aluminum;  
splash guard, and most other accessories are made of PVC.

### DISPLAYS & CONTROLS

LCD Display ..... Alphanumeric (Value, Gas, & Units).

LED Display ..... 4 Digit x 1.5 Inch Red LED (Value).

Indicators..... Power source LEDs (AC, DC and Battery), Alarm and corresponding to  
magnetic keypad LEDs

Security..... Password Protected Configuration Menu

Auto Config..... System automatically senses the presence of optional modules and  
features

Reset/silence .. External push button switch for acknowledge (Alarm sequence 3A)

Annunciators .. Audible (+95db) & Visual single strobe with optional second strobe

### APPROVAL RATINGS

TUV..... CAN/CSA C22.2 No. 61010-1-2004  
UL 61010-1:2005

**NOT APPROVED FOR USE IN HAZARDOUS CLASSIFIED AREAS.**