

**RESOLUTION 23-12**

**A RESOLUTION TO AUTHORIZE A GRANT APPLICATION FOR FUNDING TO PURCHASE GAS METERS**

**WHEREAS**, the City of Spring Hill operates a career fire department that responds to all hazards within the City; and

**WHEREAS**, the department regularly responds to reported gas leaks that include carbon monoxide, natural gas, petroleum fuels, hydrogen sulfide and other hazardous materials; and

**WHEREAS**, the department currently operates area-wide 4-Gas Meters that handle diffuse situations; and

**WHEREAS**, it is the department's desire to add Combustible Gas Detectors with pin-point "sniffer" ability that provide for point of leak identification including point of origin gas detection for fire investigations; and

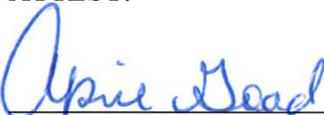
**WHEREAS**, the purchase of these devices are not currently budgeted; but are considered eligible equipment for application to the Firehouse Subs Public Safety Grant Foundation;

**NOW, THEREFORE BE IT RESOLVED**, by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee that the Fire Chief be authorized to:

1. Collect information, research and make application to the Firehouse Subs Public Safety Grant Foundation
2. Obtain required signature from the Mayor prior to submission
3. Submit application electronically by the first quarter deadline

**Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, this 17th Day of January, 2023.**

ATTEST:

  
\_\_\_\_\_  
April Goad, City Recorder

  
\_\_\_\_\_  
Jim Hagaman, Mayor

LEGAL FORM APPROVED:

  
\_\_\_\_\_  
Patrick Carter, City Attorney



**REQUEST:**            **Approval of Resolution 23-12**

**SUBMITTED BY:**   **Graig Temple, Fire Chief**

**DATE:**               **January 17, 2023**

**RE:**                   **Permission to apply for Firehouse Subs Public Safety  
Foundation Grant**

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**PURPOSE:**

The purpose of this resolution is to allow Fire Department Administration to begin the process of collecting data, researching, and drafting an application for the first quarter grant opportunity with the Firehouse Subs Public Safety Foundation to purchase combustible gas detectors.

**BACKGROUND:**

Currently the department utilizes 4-gas meters that are considered area-wide and generally do not allow for point of leak or point of origin specificity. Purchasing additional combustible gas detectors will aid in identifying leaks faster, identifying the use of accelerants in set fires and will provide needed redundancy in air sampling.

**FINANCIAL IMPACT:**

The Gas Meters referenced are not currently budgeted for and the department would need to wait for the next fiscal year to purchase the devices. The cost to purchasing one Combustible Gas Leak Detector per apparatus (6) and one (1) Combustible Gas Accelerant Detector for the Fire Investigator is \$17,343.40. If awarded, the grant will save the city this amount of operating expenses in a future budget year.

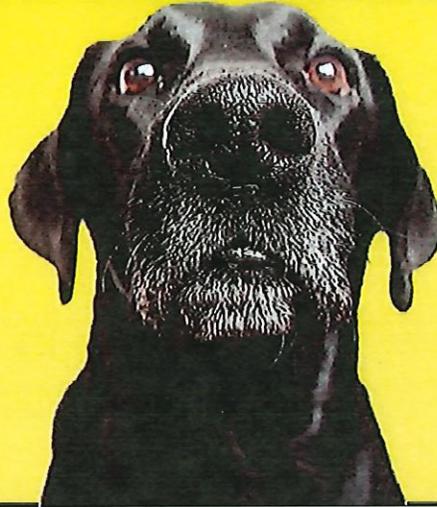
**STAFF RECOMMENDATION:**

Staff recommends approval of Resolution 23-12 to:

1. Make application to the Firehouse Subs Public Safety Foundation for the first quarter of 2023.
2. If awarded, purchase Gas Detectors using the provided grant funding

# Sniffing For Arson Accelerants ?

Don't Have One of These ?



Then You Need One Of These !

## Model 950-ASH Features:

- Better evidence collection
- Ruggedly constructed electronic hydrocarbon detection & field survey tool
- Detects the presence of trace levels of combustible hydrocarbon gas
- Telescoping probe for hard to reach places
- UV LEDs for visible fluorescence



MADE IN  
USA

**GRACE**  
INDUSTRIES, INC.  
Arson Detection

[www.ArsonDetection.com](http://www.ArsonDetection.com)

# 950-ASH Investigator's Aid

For Detection of Hydrocarbons, Accelerants, Petroleum volatiles and various Gases

## The Model 950-ASH Arson Scanner and Accelerant

**Detector** is a precision instrument designed specifically for detecting trace levels of hydrocarbons and accelerants. Model 950-ASH is optimized for detecting hydrocarbons or accelerants that may be present at suspect arson fires. Model 950-ASH functions as an excellent general purpose discovery instrument for field survey such as: searching landfills for methane outgassing, the detection of leaking underground storage tanks, or simply as a general purpose gas leak detector.

Additionally, Model 950-ASH employs an array of illuminating ultraviolet and white LEDs which further assist the investigator in locating accelerants or other evidence in situations where detection in low visibility environments becomes difficult. Other beneficial features include a Mute function to silence the audible tones for discreet investigation and a Purge feature for rapid Sensor recovery.

**POWER ON:** Power the Model 950-ASH ON by rotating the Detection Range Control clockwise until a click sound is heard. The blue Power Indicator LED will begin to flash. After approximately 3 minutes, it will stop flashing and will glow blue to indicate the instrument is ready for use.

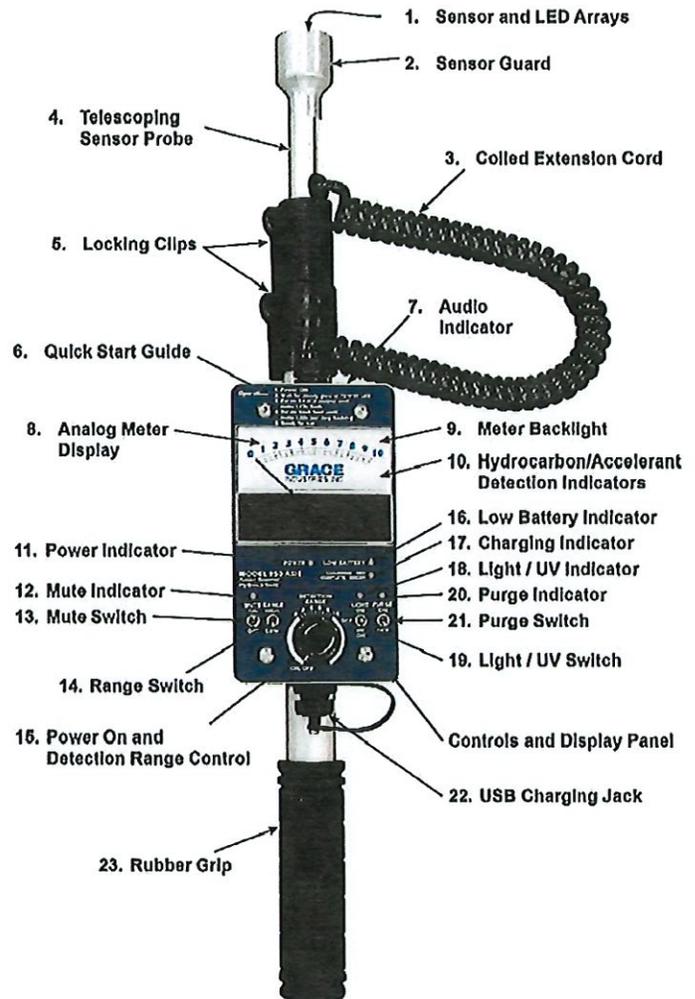
**SETTING the SENSITIVITY:** Rotate the Detection Range Control clockwise until the needle on the LEDs begin to flash. Next, slowly rotate the Detection Range Control slightly counter clockwise until the needle on the Analog Meter Display falls to the 0, 1, or 2 region on the meter scale and the LEDs no longer flash. When set in the HIGH position, the detection range control allows detection of trace levels of hydrocarbons or accelerants. Using LOW Range reduces the detection sensitivity, so higher concentrations or sources of hydrocarbons/accelerants are more easily located.

To detect the presence of hydrocarbons/accelerants, scan the suspect material or area of concern at an angle of approximately 45° while holding the Sensor end of the Telescoping Sensor Probe approximately ½" to 1" from the area to be surveyed. Scan very slowly to provide sufficient time for the vapor to penetrate the Sensor.

**NOTE:** The time required for a hydrocarbon/accelerant to change from liquid to vapor and diffuse into the Sensor is dependent upon environmental factors such as temperature, humidity, and wind velocity and the type of hydrocarbon/accelerant.

**NOTE:** to silence the 950-ASH for discreet investigation, put the Mute control in the ON position.

## MODEL 950-ASH FEATURES



## SPECIFICATIONS

**Dimensions:** 3-1/4" wide by 3-1/4" deep by 19-1/2" long. When fully extended, the 950-ASH is 45" long.

**Weight:** 2 lbs 2oz (960 grams).

**Battery:** rechargeable Lithium-ion. Up to 7-8 hours of continuous operation.

**Battery Charging:** +5V USB adapter powered from 120VAC wall plug charger. Approximately 24 hours to fully charge from Low Battery Indication.

**Sensor:** Solid State Metal Oxide Semiconductor.

**White LED:** 8 solid state white LEDs arrayed around Sensor.

**Ultraviolet (UV) LED:** 8 long-wave ultraviolet (395nm) LEDs arrayed around the Sensor.

**MADE IN  
USA**

**HGACBuy**  
THE SMART PURCHASING SOLUTION

# Arson Investigation Testimonials

" I have been an arson investigator for four years and have investigated over 50 fires for origin and cause. I have used the Electronic nose on every fire that I have investigated in the last two years. I use to utilize this tool when there are factors leading me to believe that a combustible liquid may be present. But I now use it on every investigation just to add the information to my summary report. The department has had two units for over 20 years & they have been a great addition to my investigations and those of my predecessors. For anyone looking for a hydrocarbon detector, I would highly recommend this product. "

Matt Noblitt - Arson Investigator  
Columbus, IN

" We have used this on numerous incidents to determine if there was any residual hydrocarbon fuels remaining at Point of Origin following suspicious fires. It has allowed us to identify fires where an accelerant was present to confirm our suspicions. We have also used it to identify a suspect in an arson fire where we identified a hydrocarbon residue on the clothing and skin on their arms and hands. We have also used it to confirm a lack of hydrocarbon residue in a vehicle suspected to have been used in an arson fire as an escape vehicle. We find this to be an excellent tool to assist us in confirming or denying our hypothesis as to cause and origin in our fire investigations. "

Bob Fulton - Deputy Fire Chief  
City of Dawson Creek, CA

**GRACE**  
INDUSTRIES, INC.  
Arson Detection

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Fredonia, PA  
16124

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www.ArsonDetection.com

MADE IN  
USA

HOME / ARSON INVESTIGATION / MODEL 950-ASH

# Model 950-ASH

☆☆☆☆☆ (No reviews yet) [Write a Review](#)

**\$1,828.00**

SKU: 950-ASH



Quantity:

REQUEST QUOTE

# Sensit Gold G2 Combustible Gas Leak Detector (GOLD-G2)



Starting at:

**\$2,585.90**

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Select Model & Gas Type:

4 Gas LEL/CO/O2/H2S

Select Instrument Case:

Soft Pouch Ship Kit

**WHAT DOES THIS  
PACKAGE INCLUDE?**

Product Code:  
911-00000-08

**FREE** Ground  
Shipping

Government  
Buyers?

Tech Support  
Available

Product Weight:  
8.00

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HAVE A QUESTION?

☎ Call: **1-847-577-3980**

## Description



SENSIT® GOLD G2 is a cutting-edge gas detector designed for locating gas leaks in the field and for use in confined areas. The sensor can also be utilized for inert gas operations to find combustible gases in environments that are oxygen free.

SENSIT® GOLD G2 is highly accurate, is easy to use and is the most versatile gas leak detector currently available.

SENSIT® GOLD G2 can read and analyze combustible gases in PPM, LEL and/or percent volume. The sensor can also be equipped to detect several toxic gases in addition to oxygen.

The Sensit GOLD G2 can display up to 4 gases:

- LEL (%Volume and PPM Optional)
- Oxygen
- Carbon Monoxide
- Hydrogen Sulfide
- Hydrogen Cyanide (Optional)

### **APPLICATIONS**

- Combustible Gas Leak Detection
- Gas Leak Survey
- Underground Leak Pinpointing
- Carbon Monoxide Investigations
- Confined Space Monitoring
- Combustible Gas Measurements
- Pipeline Purging
- Method 21 Emissions Testing
- Inert Gas Operations

### **PARTIAL LIST OF GASES SENSED**

- Butane
- Carbon Monoxide
- Gasoline
- Hydrogen Sulfide
- Methane
- Natural Gas
- Oxygen

- Propane

## Features

### **STANDARD FEATURES**

- Intrinsically Safe Design (Certified)
- Internal Pump - Fast Sampling
- Audible "Tick" Control - Fast Leak Location
- Lowest Cost, Long Life Sensors
- LED Warning Lights
- Bright Graphic Display
- Loud Audible Alarm
- Battery Strength Indicator
- Internal Memory
- Exceptional Water Protection

### **ADDITIONAL FEATURES**

#### **BAR HOLE TEST FEATURES:**

- Peak Readings
- Sustained Readings
- Timed Test

#### **ADJUSTABLE CALIBRATION REMINDERS:**

- Calibration Due
- Calibration Over-Due (Shows at Start-up)

#### **ADJUSTABLE GAS SCALES:**

- Auto Range Point for LEL to %Vol

#### **GAS IDENTIFICATION ALERT OPTIONS:**

- "NSR" - Non-Standard Response
- "NSC" - Combustible Other Than Gas Calibrated to (4-5% Volume)

## Specs

### **PRODUCT SPECIFICATIONS**

Size: 11.5" x 3" x 2.32" (29.2 x 7.6 x 5.9 cm)

Weight: 1.2 lb. (544 g)

Operational Temp: -4 to 104 F (-20 to 40° C)

Battery Life: Alkaline: Approximately 18 hrs. Continuous

## SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPM*	1ppm or 10ppm	0-10,000 ppm	±10%
LEL	0.1% up to 2%	0-100% LEL	±10%
% NAT GAS	0.1%	5-100% GAS	±5%
% PROPANE	0.1%	2.2-100% GAS	±5%
O2	0.1%	0.25%	±.02%
H2S	1ppm	0-2000ppm	±5ppm or 5%**
HCN	1ppm	0-30ppm	±1ppm or 5%**

\*PPM Optional

\*\* Whichever is greater

### PPM RANGES AVAILABLE:

- 0-2000ppm
- 0-5000ppm
- 0-10,000ppm

### Additional Info

Brochure

Quick Start Guide

Operation Manual

### Package Includes

- Hard Carrying Case
- 3 "C" Batteries
- Extra Sensor Cap
- Choice of 2 Piece Bar Hole Probe or Confined Space Probe
- Wrist Strap
- T10 Allen Wrench
- Instruction Manual