SENS**IT**

2020 PRODUCT GUIDE

NATURAL GAS
ENERGY INDUSTRIES

▸ **Gas Leak Detectors**

▸ **Hazardous Gas Monitors**

▸ **Calibration Stations**

▸ **Data Management**

▸ **Pipe Locators**

SENSIT Technologies

The Company:

SENSIT Technologies is an ISO 9001:2015 compliant, family-owned business located in Valparaiso, Indiana. Since 1980, we have manufactured gas leak detection products that help protect life and property.

Today, as a result of continuous innovation and commitment to customer satisfaction, the company has grown to become a global supplier to several markets:

- Energy: Natural and Propane Gas Industries
- Emergency Response: Fire Services
- Industrial: Health, Safety and Maintenance
- Municipal: Waterworks and Infrastructure
- Service Contractors: HVAC and Plumbing

The Products:

SENSIT gas detection products are best known for quickly and easily locating gas leaks and accurate measurement of toxic gases. Durability and low cost of ownership have added to our product popularity. SENSIT instruments can be found in many forms:

- Gas Leak Detection
- Personal Gas Monitors
- Infrastructure Detection

Our instruments meet approval agency standards from UL, ATEX, and CSA. Virtually all of our instruments can be linked to compliance reporting with the use of our Smart-Cal calibration and data management system. It is the final link for any total instrument program.

The People:

The most important asset we have to offer is our incredible people. Our dedicated team of gas detection experts have centuries of combined experience in product development, production, sales and service. Complete customer satisfaction is our number one objective:

- Provide the exact product to meet your requirements
- Exceed your expectations for service
- Offer the lowest cost of ownership over the life of the product

The Future:

SENSIT Technologies is committed to bringing new and innovative detection products to the global marketplace.

SENSIT Technologies
851 Transport Drive
Valparaiso, IN 46383-8432

Phone: 888 473 6748
        219 465 2700

Fax: 219 465 2701
Email: info@gasleaksensors.com
Web: www.gasleaksensors.com

ENERGY INDUSTRY PRODUCT GUIDE

GAS•TRAC® LZ-30

Quickly and safely detect methane gas leaks in difficult to reach areas.

The LZ-30 from SENSIT Technologies is a compact methane-specific leak detector that provides fast and accurate readings at distances up to 100 feet.

The LZ-30 utilizes TDLAS (tunable diode laser absorption spectroscopy) technology to provide instantaneous and accurate responses to the presence of methane gas.

Designed to be competitively priced, the LZ-30 is perfect for hard to reach areas, eliminating the need to directly access the gas plume, climb to elevated areas, or access fenced-in property and potentially hazardous situations through windows.

IR / SPOTTER / DISTANCE LASER

OLED DISPLAY

OPERATION BUTTONS

PROTECTIVE BOOT

CHARGING TERMINALS

Standard Features
- Methane selective
- Continuous detection
- Three adjustable alarm points (visual, audible and tactile)
- Intrinsically safe design
- Ergonomic design
- Easy to maintain
- Cal Cell integrated in carrying case
- Rechargeable battery
- Low cost of ownership
- Industry leading 2-year warranty (including battery)

STANDARD KIT
- Hard Carrying Case
- Charger Base with Wall Transformer
- Protective Boot
- Wrist Strap
- Integrated Calibration/Bump Test Cell
- Instruction Manual

SPECIFICATIONS

Detection Technology:	Tunable Diode Laser Absorption Spectroscopy (TDLAS)
Methane Detection Range:	0-50,000ppm-m in 1ppm-m increments
Sensitivity:	5ppm-m ≤15m (50ft)/10ppm-m ≤30m (100ft) @ ≥ 300ppm-m
Response Time:	≤0.1 seconds
Detection Distance:	0.5m to 30m (1.5' to 100')
	Distance may vary depending on reflection
Distance Indicator:	0.2m to 30m (6" to 100')
	Range may vary depending on reflection
Beam Dimension:	Conical, 20cm diameter at 30m (8" at 100')
Alarms:	Adjustable threshold alarm with baseline: Visual and audible
Warnings:	High/Low reflection, low battery
Calibration/Bump Test:	Carrying case incorporates calibration/bump test cell.
Laser classifications:	IR laser (methane detection) Class 3R
	Target laser (green) Class 3R
	Distance laser (red) Class 3R
Communication:	Bluetooth. Supported by Android.
Display:	OLED
Operational Temp:	-20C to 50C (-4F to 122F)
Storage Temp:	-40C to 60C (-40F to 140F)
Humidity:	5 to 95% non-condensing
Enclosure:	Designed to meet IP54
Intrinsic Safety:	Designed to meet US and ATEX
Weight:	300g (0.7lbs)
Size:	164mm (6.5") x 78mm (3.0") x 36mm (1.5")
Power Source:	Internal Lithium Ion
Battery Life:	6 Hours Continuous
Recharge Time:	3 to 4 Hours
Languages Supported:	English, French, German, Italian, Polish, Spanish

GAS•TRAC® FPL

Open-path laser-based monitor capable of a broad range of detection and alarms.

GAS•TRAC Fixed Point Laser (FPL) is methane selective and utilizes state of the art TDLAS (tunable diode laser absorption spectroscopy) technology, providing the ultimate solution in field performance, data management, flexibility, safety and security.

It can be deployed on-site in less than an hour. While considered a "fixed point" monitor, the FPL is easy to disassemble and reassemble where it is needed. No power? No problem. Integrated solar panels charge the built-in battery, making the FPL self-sustaining and perfect for remote locations like well heads, storage fields, compressor, metering and regulating stations.

Analytics and site data stream in real time via cellular for easy and reliable remote viewing.

Standard Features
- Methane selective
- Two optical assemblies for detection
- Up to 40 meter detection range
- Solar powered
  with built-in rechargeable battery
- Wireless communication to secure server
- Continuous datalogging
- Simple report generation
- Includes vane anemometer
  (wind direction and speed)
- Defrosting capability to prevent signal loss
- Ambient Temperature Monitoring
- Ambient Pressure Monitoring
- Relative Humidity Monitoring
- Dual Optical Assembly Configuration
- Reflector plate

STANDARD KIT
- Two Optical Assemblies
- Reflection Plate
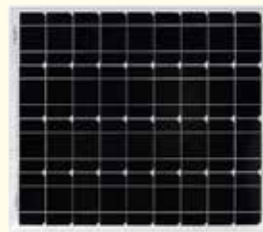- Controller Box
- Vane Anemometer
- Instruction Manual

VANE ANEMOMETER
(WIND DIRECTION & SPEED)

GSM ANTENNA

CONTROL BOX
- POWER / USB
- VANE ANEMOMETER INPUT
- SOLAR PANEL INPUT
- AUXILIARY
- INDICATOR

OPTICAL ASSEMBLY

OPTIONAL:
SOLAR PANEL
TRIPOD

TECHNICAL SPECIFICATIONS

Detection Technology:	Open Path, Tunable Diode Laser Absorption Spectroscopy (TDLAS), methane selective
Instrument Type:	Infrared Laser
Configuration:	Single or Dual Optical Assembly
Methane	Detection Range: 0-10,000ppm-m
Resolution:	1ppm-m
Sensitivity:	2.5ppm-m (250ppb @ 10m)
Alarms:	Adjustable (visual and audible)
Accuracy:	+/- 0.25 ppm-m at 10 meters
Response Time:	Less than 1 second
Detection Distance:	1-40m (3-131ft) standard, longer detection distance available
Power Requirement:	Built in Rechargeable Battery maintained by solar panel
Battery Life:	Up to 4 days (temperature dependent) without recharge via solar panel
Power Consumption:	Less than 2 watts
Operating Temperature:	-40C to 55C (-40F to 131F)
Operational Voltage:	18-24VDC
Operating Humidity:	Relative humidity ≤98%
Laser Safety:	Class IIIr
Enclosures:	Aluminum, NEMA 4 (designed to meet IP54)
Communication Interface:	Cellular, TTL (3.3V), Modbus RTU (optional, fully isolated), Analog 4-20 mA (optional), RS-232 (optional)
User Interface:	Monitor/Receive alerts via computer, smartphone, tablet
Weight:	22kgs (50lbs)
Size:	Optical Module- 340mm x 144mm x 265mm (13.5in x 6in x 10.5in) Reflection Plate- 500mm x 10mm x 400mm (20in x 0.5in x 16in)

SENSIT® GOLD G2

The most versatile and user-friendly gas leak detector available today!

Displays Up To 4 Gases Simultaneously
- LEL (%Volume and PPM Optional)
- Oxygen
- Carbon Monoxide
- Hydrogen Sulfide
- Hydrogen Cyanide (Optional)

Selectable Gas Type
- Methane (Natural Gas)
- Propane

Standard Features
- Intrinsically Safe Design (Certified)
- Internal Pump - Fast Sampling
- Digital "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

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

STANDARD KIT
- Hard Carrying Case
- 3 "C" Batteries
- Extra Sensor Cap
- Wrist Strap
- T10 Allen Wrench
- Instruction Manual

Choice of 2 Piece Bar Hole Probe or Confined Space Probe

- LUER PROBE CONNECTOR
- SENSOR CAP
- LEL / PPM SENSOR
- INFRARED COMMUNICATIONS
- GRAPHIC DISPLAY
- ALARM LEDs
- OPERATION BUTTONS
- WATER-RESISTANT HOUSING
- FLEXIBLE GOOSENECK
- BATTERY COMPARTMENT

Patented

TO OPERATE:
1. Press Power
2. Wait 45 Seconds for Automatic Zeroing
3. Begin to Use

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%	±0.2% or 10%**
CO	1ppm	0-2000ppm	±5ppm or 5%**
H2S	1ppm	0-100ppm	±2ppm or 5%**
HCN	1ppm	0-30ppm	±1ppm or 5%**

*PPM Optional
  PPM Ranges Available:
  0-2,000ppm, 0-5,000ppm, 0-10,000ppm

**Whichever is greater

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

TRAK-It® IIIa

Combustible Gas Indicator designed for extreme working conditions.

Displays Up To 4 Gases Simultaneously
- LEL (%Volume and PPM Optional)
- Oxygen
- Carbon Monoxide
- Hydrogen Sulfide

Standard Features
- Intrinsically Safe Design (Certified)
- 2-Speed Internal Pump
- Identifies Natural Gas vs Propane Gas
- Lowest Cost, Long Life Sensors
- LED Warning Lights
- Large Bright Graphic Display
- Loud Audible Alarm
- Optional 1600 Event Auto Log
- Exceptional Water Protection
- Long Battery Life
- Cost Effective As An Area Monitor
- Infrared Downloading
- Built-in Natural Gas and Propane Gas Calibration
- Stainless Steel Housing

Applications
- Gas Line Purge
- Underground Leak Pinpointing
- Gas Leak Investigations
- Carbon Monoxide Investigations
- Confined Space Monitoring
- Combustible Gas Measurements

Partial List of Gases Sensed
- Butane
- Gasoline
- Methane
- Oxygen
- Carbon Monoxide
- Hydrogen Sulfide
- Natural Gas
- Propane

STANDARD KIT
- Padded Carrying Pouch
- 4 "C" Batteries
- Neck Strap
- External Water/Dirt Filter
- Instruction Manual
- Choice of Bar Hole Probe or Confined Space Probe

PADDED CARRYING POUCH GRAPHIC DISPLAY

IR WINDOW

STATUS / ALARM LEDs

SPEAKER

NECK STRAP

OPERATIONAL BUTTONS PROBE ASSEMBLY

Patent Pending

TO OPERATE:
1. **Press Power**
2. **Wait 45 Seconds for Automatic Zeroing**
3. **Begin to Use**

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPM*	5ppm	0-2,000 ppm	±10%
LEL	0.1% up to 2%	0-100% LEL	±10%
% NAT GAS	0.1%	5.0-100% GAS	±5%
O2	0.1%	0-25%	±0.2% or 10%**
CO	1ppm	0-2000ppm	±5ppm or 5%**
H2S	1ppm	0-100ppm	±2ppm or 5%**
HCN	1ppm	0-30ppm	±2ppm or 5%**

*PPM Optional

**Whichever is greater

PRODUCT SPECIFICATIONS
Size: 6.5" x 4" x 4.25" (16.5 x 10.2 x 10.8 cm)
Weight: 2.8 lb. (1.27 kg)
Operational Temp: -4 to 104 F (-20 to 40° C)
Battery Life: Alkaline: Approximately 40 hrs. Continuous

GASLESS LEAK TRAINER

The new standard for gas detection and emergency response training

The **Gasless Leak Trainer (GLT)** was designed to meet the hands-on training needs for gas emergencies and hazardous leak investigations.

The GLT system pairs a Bluetooth-enabled tablet with specially equipped **SENSIT and Trak-It IIIa** instruments to simulate real-world scenarios without the need for live gas. The system includes Training Mode, Monitor Mode, and Testing Mode to assist with every aspect of employee development related to hazardous gas investigations.

The GLT allows for total control of the training process. In Training mode, the trainer remotely sends commands to the user's instrument in real time, allowing the employee to experience realistic scenarios in a gas-free environment. In Monitor mode, the trainer can observe the actions taken by the employee on the instrument during an exercise or live event. In either mode, the trainer observes the employee's response to gas values, alarms, and other actions. The tablet also incorporates a customizable test to assess employee proficiency.

Key Features:

- Simulates hazardous conditions without live gas
- Improves employee safety and competency
- Provides realistic sensor and instrument response
- Includes customizable employee testing
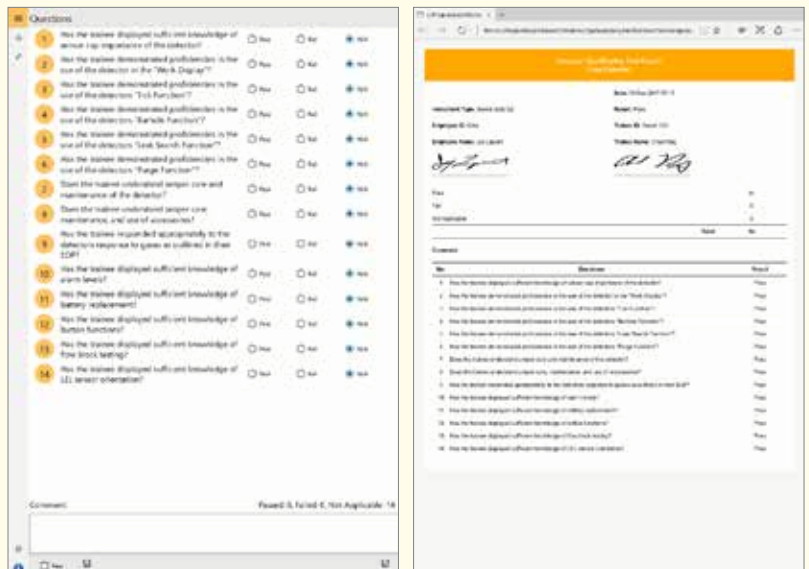- Improves emergency response and public safety

Training Applications:

- Emergency Response
- Confined Space Monitoring
- Leak Detection and Investigation
- Gas Purging
- Barhole Testing
- Leak Search/Pinpointing
- Carbon Monoxide Investigation

Tablet Features/Specifications:
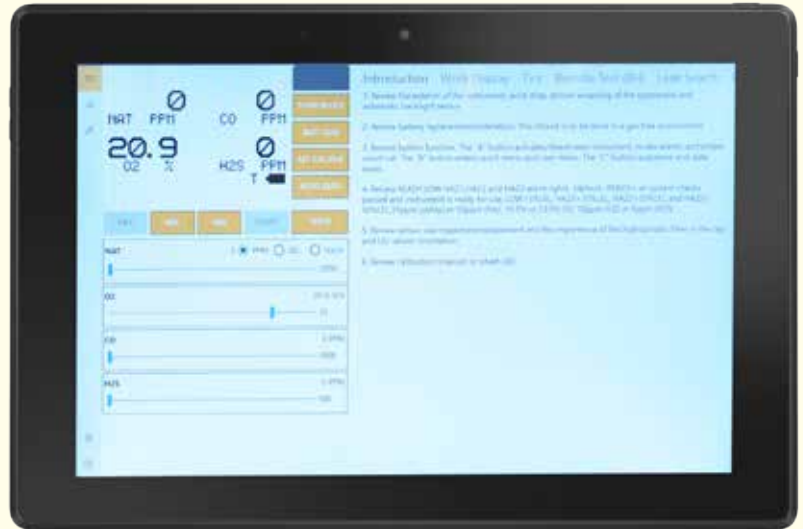
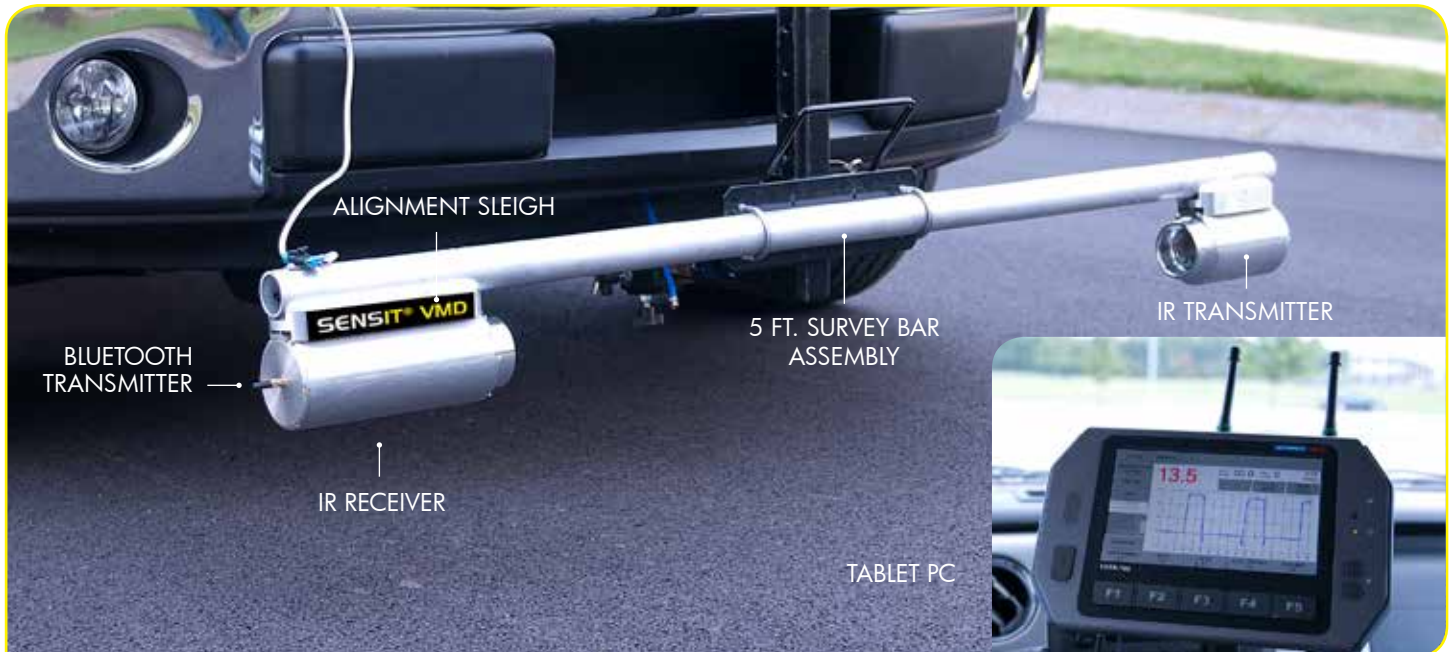- Windows 10 Pro with GLT Application
- Class 1 Bluetooth
- Rugged Hard Case with Screen Protector
- 100 Ft. Line of Site Communication
- 6 Hours Continuous Battery Life
- Pair Multiple GLT Enabled Instruments to Tablet
- Incorporate Training Modules
- Incorporate OQ Testing (Customizable)
- Database Backup Support
- Supports SENSIT G2-GLT, and Trak-It IIIa GLT

Operator Qualification Tests and Reports:

SENSIT® VMD

Conduct mobile leak surveys fast & accurately with the latest infrared technology.

ALIGNMENT SLEIGH

BLUETOOTH TRANSMITTER →

IR RECEIVER

5 FT. SURVEY BAR ASSEMBLY

IR TRANSMITTER

TABLET PC

SENSIT® VMD is a state-of-the-art vehicle mounted survey instrument used to detect natural gas leaks along underground pipelines. Using the latest in open path infrared absorption spectroscopy, the VMD increases the efficiency and accuracy of mobile methane leak surveys. VMD logs gas leak information and maps GPS coordinates.

Standard Features
- Methane Selective
- Instantaneous response time
- No cables through vehicle firewall
- Data transmission via Bluetooth
- Simple user interface
- Waterproof tablet computer
- Adjustable visual and audible alarms
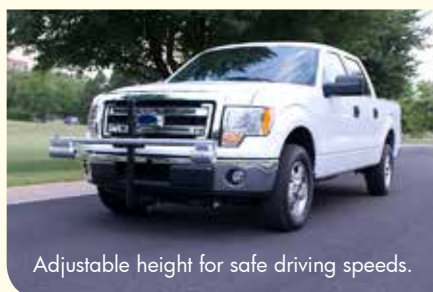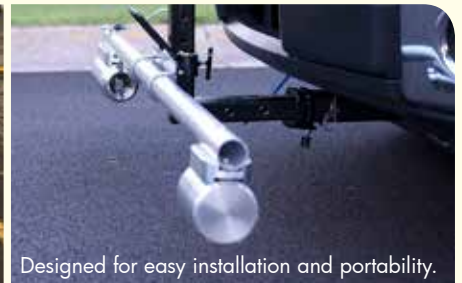- Integrates with SENSIT PMD vacuum system
- Lowest cost of ownership

Displays:
- Gas Concentrations
- System Status
- GPS Location
- Detection Alarms

Other:
Simple 2 inch front mount hitch for fast set-up. Any vehicle with front mount receiver and 12 VDC power outlet/connection can become a survey vehicle in minutes.

Variable length detector system can be fitted to any vehicle specification.

Ready for road and off-road surveys.

Designed for easy installation and portability.

Adjustable height for safe driving speeds.

Integrates with SENSIT PMD Vacuum System

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPM*	0.1PPM	1.0-1000PPM/Meter	±10% 2PPM/Meter

*Measurements conducted at 25 mph

PRODUCT SPECIFICATIONS
Size:	3 Ft. to 8 Ft. path length (5 Ft. Standard)
Weather Resistance:	IP 54
Operational Temp:	-22 to 122° F (-30 to 50° C)
Power Requirement:	12-16 VDC / 60w

SENSIT® PMD

Performs Methane Gas Leak Surveys faster and with greater accuracy.

Using the latest Filtered Infrared Spectroscopy technology, the **SENSIT® PMD** allows users to perform gas leak surveys fast, accurately and at the lowest cost of operation.

Applications
- Above Ground Leak Survey
- Below Ground Leak Pinpointing
- Vehicle Leak Surveys

Standard Features
- Intrinsically Safe Design
- Large Display with Automatic Backlight
- Powerful 1.0Lpm Pump
- Methane Selective
- Filters Out Other Gases in PPM Range
- Adjustable PPM and LEL Alarms
- Bar Hole Test
- Tick-Style Leak Detection
- Datalogging with Event Capture
- Easy connection for auxiliary pumps used in vehicle applications
- SMART-Cal Compatible

Optional Features
- **Data Logging:**
  Record Calibration Data, Alarms, Peak Reading Real-Time Readings with GPS Coordinates

- **Infrared Communication:**
  Print Records and Alarms
  Communicate with Smart-Cal Calibration System

- **Blue Tooth Communication:**
  Stream Real-Time Data

- **Removable Memory Card**
  Storage of Data Logging

Vehicle Mount Vacuum System

STANDARD KIT
- Telescopic Survey Boot & Probe Rod
- Lithium Ion Rechargeable Battery Pack
- Battery Charger
- Carrying Straps
- Instruction Manual

GRAPHIC DISPLAY   FILTER   INFRARED COMMUNICATIONS

BACK LIGHT SENSOR

TELESCOPIC SURVEY BOOT and PROBE ROD

SPEAKER   ALARM LED   OPERATION BUTTONS

Patent Pending

TO OPERATE:
1. **Press Power**
2. **Wait for Automatic Zeroing**
3. **Begin to Use**

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPM*	1ppm	0-5,000	±10%
LEL	0.1%	0-100%	±10%
%VOL	0.1%	5-100%	±10%

*PPM Optional

PRODUCT SPECIFICATIONS

Size:	10" x 4.1" x 5.5" (25.4 x 10.4 x 14 cm)
Weight:	6.1 lb. (2.6 kg)
Operational Temp:	-4 to 122° F (-20 to 50° C)
Power:	Lithium Ion rechargeable battery pack
Battery Life:	Approximately 7 hrs. Continuous

SENSIT® IRED

Quickly determines the presence of ethane in low concentration methane samples.

SENSIT® IRED is a state of the art ethane detector incorporating a unique, patented use of infrared absorption spectroscopy to determine the presence of ethane in a methane sample.

This technology can detect as little as 250ppb in a 50ppm methane sample. Even the smallest of samples can be analyzed in the field to determine if gas from a natural gas piping system is being detected.

Ethane is the key "fingerprint" contained in pipeline gas and ranges from 2-25% by volume.

Benefits

Ethane Specific - IRED filters out other gases.
Powerful pump provides fast sensing.
Ideal for low concentration methane readings.

Displays 0-999 ppb ethane
Displays 1.0-500 ppm ethane

Standard Features

- Large Backlit Display
- Powerful Pump
- Measurement Logging: Record Readings
- Record Calibration Data
- Bluetooth Communication
- Simple 3-Button Operation
- Infrared Communication
- Bluetooth Communication

SENSIT® IRED can communicate with SMART-CAL Calibration System, SmartLink software (via Bluetooth), and print records to IR Printer (All Sold Seperately.)

Optional

- Record GPS Coordinates with Readings
- IR Printer

STANDARD KIT

Telescopic Survey Probe
Compact Carrying Case
Wall Charger
Carrying Strap
Instruction Manual
Hot Swap Vehicle Battery
Hydrophobic Filter Disc 0.75" (10 Pack)
Blue Filter for Probe (1 Filter)
Battery Door Removal Tool

READY LED · ERROR LED · FILTER · INFRARED COMMUNICATIONS · SOUNDER · GRAPHIC DISPLAY · OPERATION BUTTONS · BACK LIGHT SENSOR · "D" RING · TELESCOPIC SURVEY BOOT and PROBE ROD

TO OPERATE:

1. **Press Power**
2. **Wait for Automatic Zeroing**
3. **Begin to Use**

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPB	1ppb	250-999	±20%
PPM*	0.1ppm	1.0-500	±20%

*Maximum sample size of methane is 2,000ppm (0.2%V/V)

PRODUCT SPECIFICATIONS

Size:	11.505" x 8.512" x 5.406" (29.22 x 21.62 x 13.73 cm)
Weight:	7.4 lbs (3.4 kg) (with battery pack)
Operational Temp:	-4 to 122° F (-20 to 50° C)
Power:	Lithium Ion rechargeable battery pack
Battery Life:	Approximately 6 hrs. Continuous
Environmental Resistance:	IP 34

SENSIT® HXG-3/3P

Displays LEL and PPM readings simultaneously for accurate leak detection and analysis.

HXG-3 Standard Features
- Intrinsically Safe Design (Certified)
- Displays LEL and PPM
- Audible/Visual Alarms
- Infrared Downloading
- Long-life, Low-Cost Sensor
- Simple Calibration

HXG-3P Standard Features
- Intrinsically Safe Design (Certified)
- Internal Pump
- Water/Dust Filter
- Displays LEL and PPM
- Infrared Downloading
- Long-life, Low-Cost Sensor
- Simple Calibration

Applications
- Locate Small Gas Leaks
- Area Monitoring
- Gas Leak Surveying
- Arson/Accelerant Detection

Partial List of Gases Sensed
- Acetone
- Alcohol
- Ammonia
- Butane
- Gasoline
- Halon
- Hydrogen
- Industrial Solvents
- Jet Fuel - 2610
- Ethylene Oxide - 2610
- Lacquer Thinner
- Methane
- Natural Gas
- Propane
- Refrigerants

SENSOR

BACKLIT LCD DISPLAY

WARNING LEDS

OPERATION BUTTONS

TICK CONTROL

FLEXIBLE GOOSENECK

BATTERY COMPARTMENT

Patented

TO OPERATE:

1. **Press Power**
2. **Wait 45 Seconds for Automatic Zeroing**
3. **Begin to Use**

STANDARD KIT
- Hard Carrying Case
- 3 "C" Batteries
- Wrist Strap
- Instruction Manual

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPM*	1 or 10ppm	0-50,000 ppm	±10%
LEL	0.1%	0-100% LEL	±10%

*PPM Optional

PRODUCT SPECIFICATIONS

Size:	11.5" x 3" x 2.2" (29.21 x 7.62 x 5.89 cm)
Weight:	1.2 lb. (0.54 kg)
Operational Temp:	-4 to 122 F (-20 to 50° C)
Battery Life:	Alkaline: Approximately 25 hrs. Continuous

SENS**IT**® HXG-2d

Gas leak detector with digital display for accurate measurement of gases.

Standard Features
- Intrinsically Safe Design
- Push-Button Operation
- Field Calibration
- Backlit Display
- Adjustable Alarms
- Long-life, Low-Cost Sensor

Applications
- Locate Small Gas Leaks
- Area Monitoring
- Gas Leak Surveying
- Chemical Detection
- Arson / Accelerant Detection

Partial List of Gases Sensed
- Acetone
- Alcohol
- Ammonia
- Butane
- Ethylene Oxide
- Gasoline
- Halon
- Hydrogen
- Industrial Solvents
- Jet Fuel
- Lacquer Thinner
- Methane
- Natural Gas
- Propane
- Refrigerants

The SENSIT® HXG-2d cannot be used to check for carbon monoxide (CO) leakage.

SENSOR

ALARM LED

GRAPHIC DISPLAY

OPERATION BUTTONS

ELECTRONIC TICK CONTROL

FLEXIBLE GOOSENECK

BATTERY COMPARTMENT

TO OPERATE:
1. **Press Power**
2. **Wait 45 Seconds for Automatic Zeroing**
3. **Begin to Use**

Patent Pending

STANDARD KIT
- Carrying Pouch
- 3 "C" Batteries
- T10 Allen Wrench
- Instruction Manual

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
PPM*	10ppm	0-990 ppm	±10%
LEL	0.1%	0-100% LEL	±10%

*PPM Optional

PRODUCT SPECIFICATIONS

Size:	3.5" x 10" x 1.6" (8.9 x 25 x 4 cm)
Weight:	1.2 lb. (0.544 kg)
Operational Temp:	-4 to 104° F (-20 to 40° C)
Battery Life:	Alkaline: Approximately 50 hrs. Continuous

SENS**IT**® TKX

The perfect choice when locating hard to find natural gas or propane gas leaks.

SENSIT® TKX is the ideal choice for the budget conscious.

Standard Features
• Intrinsically Safe Design
• Solid State, Long Life Sensor
• Adjustable Tick Rate System
• Audible and Visual Indicators
• Alkaline Battery Powered

Applications
• Gas Pipe Leak Detection
• Propane / Butane Bottle Checks
• Chemical Detection
• Arson / Accelerant Detection

Partial List of Gases Sensed
• Acetone
• Alcohol
• Ammonia
• Butane
• Ethylene Oxide
• Gasoline
• Halon
• Hydrogen
• Industrial Solvents
• Jet Fuel
• Lacquer Thinner
• Methane
• Natural Gas
• Propane
• Refrigerants

SENSOR

ON / OFF SWITCH

SENSING INDICATOR

TICK ADJUST DIAL

FLEXIBLE GOOSENECK

BATTERY COMPARTMENT

TO OPERATE:
1. **Power On**
2. **Wait 30 Seconds**
3. **Adjust Tick**
4. **Begin to Use**

STANDARD KIT
• Carrying Pouch
• 3 "C" Batteries
• Instruction Manual

SENSOR SPECIFICATIONS

TYPE	DETECTION LIMIT	RANGE
PPM	20ppm	20-50,000

PRODUCT SPECIFICATIONS
Size:	3.5" x 10" x 1.6" (8.9 x 25.4 x 4 cm)
Weight:	1.3 pounds (0.59 kg)
Operational Temp:	0 to 120° F (-20 to 50° C)
Battery Life:	Alkaline: Approximately 30 hrs. Continuous

SMART-CAL™

Calibrates SENSIT® and Trak-It® instruments, stores data and manages instrument testing compliance.

All calibration data; time, date, sensor and pump performance data is stored in the calibrator for download to your computer. Data management software allows automatic uploading from calibrator, creates compliance reports and alerts selected personnel of overdue or failed calibrations.

**SMART-CAL™
Designed for use with:**
• SENSIT® CO
• SENSIT® GOLD
• SENSIT® GOLD CGI
• SENSIT® GOLD G2
• SENSIT® HCN
• SENSIT® HXG-3
• SENSIT® HXG-3P
• SENSIT® IRED
• SENSIT® PMD
• Trak-It® III CGI
• Trak-It® IIIa

**SMART-CAL™
Standard Features:**
• Push Button Operation
• Backlit LCD Display
• Line of Sight IR Communication
• Date/Time Display
• Automatic Date Adjustment
• Automatic Upload
• Calibration Memory
• Bottle Pressure Monitoring
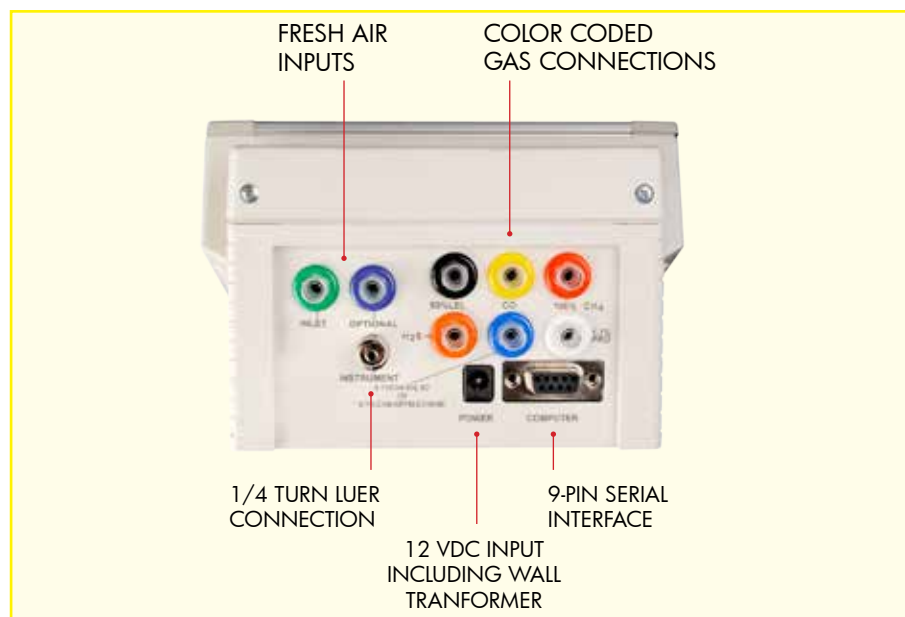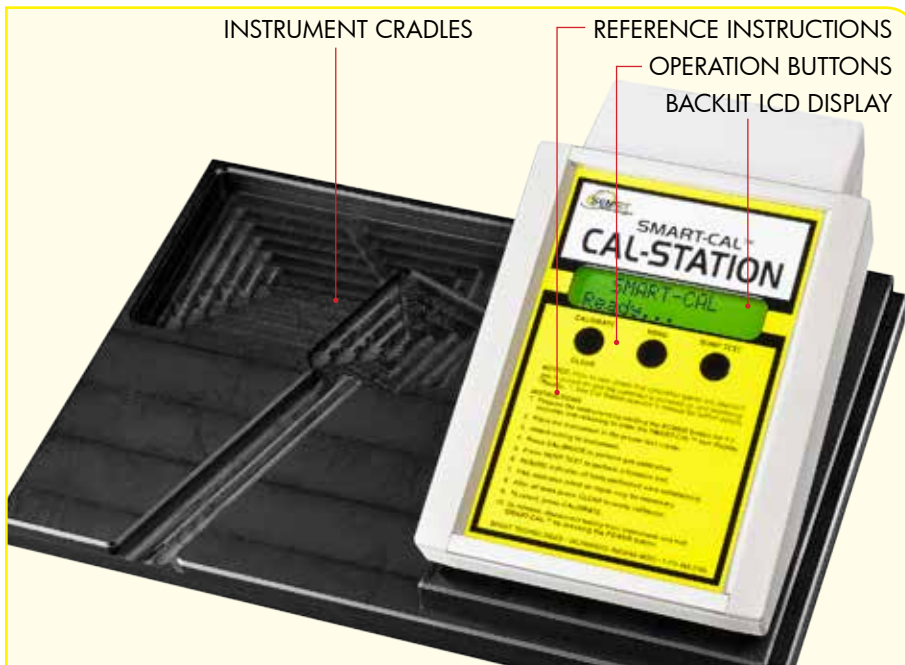• Compatible with Windows 7, 8, 8.1

**SMART-CAL™
Reporting Features:**
• Instrument Test Past Due
• Instrument Failure Alerts
• Monthly Compliance Report
• Sensor Performance Data
• Optional Networking System
• Compatible with:
  SCal-D™ (Desktop)
  SCal-N™ (Network)
  Data Management Software

Available Test Gases*
• PPM (Methane)
• LEL (Methane)
• LEL (Propane)
• % Volume
• Carbon Monoxide - CO
• Hydrogen Cyanide - HCN
• Hydogen Sulfide - H2S
• Nitrogen - N2
• Ethane - C2H6

*Contact Sensit Technologies for more info.

INSTRUMENT CRADLES — REFERENCE INSTRUCTIONS — OPERATION BUTTONS — BACKLIT LCD DISPLAY

FRESH AIR INPUTS — COLOR CODED GAS CONNECTIONS

1/4 TURN LUER CONNECTION

9-PIN SERIAL INTERFACE

12 VDC INPUT INCLUDING WALL TRANFORMER

SOFTWARE REQUIREMENTS

30MB Hard Drive Space
Windows® Windows 7, 8, 8.1 Operating System
Microsoft® Outlook
Microsoft Excel

PRODUCT SPECIFICATIONS

Size:	10.75" x 6.75" x 4.5" (27.3cm x 17.1cm x 11.4cm)
Weight:	2.5 lb. (1.13 kg)
Operational Temp:	32 to 120 F (0 to 48.9° C)
Max. Inlet Pressure:	20 PSI
Power:	100 - 240VAC Input with12VDC Output

SCAL-D / SCAL-N

Data Management Software for use with SMART-CAL™ & SCal-100 Calibration Stations

SCal is the Data Management Software used to download data from Calibration Stations.

Various reports and alerts can be viewed, printed, emailed or stored as an Excel spreadsheet. When configured it will automatically alert operators and supervisors of important data depending on their preference. SCal provides an easy to use interface and content sensitive help with FAQ's for quick response.

SCal-D is the Desktop version of the software. This single-user software application comes standard with Calibration Stations.

SCal-N is the Network version of the software. SCal-N is sold separately with a multi-year license. Use SCal-N to download data from remotely located Calibration Station(s). Data is stored in SQL Server.

SCal-N is divided into two categories:

Admin Application:

The Admin application is the host for the automatic downloading of remote Calibration Stations that have the proper communication hardware installed. This program is SQL Server based. You must install and use only one copy of SCal-N as Admin.

User Application:

The User Application allows viewing of selected data stored in the Server database from any computer that has access or privileges. An authorized login and password to the SQL Server is required for each User application installed.

*Contact Sensit Technologies for more info.
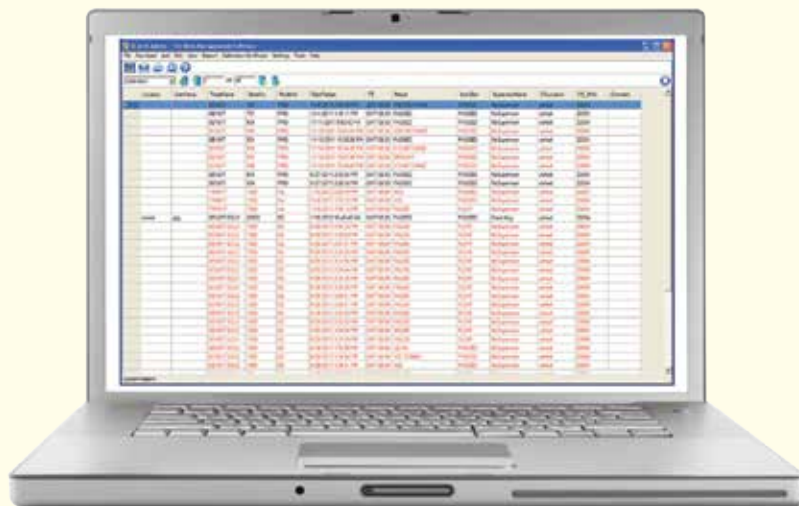
HARDWARE REQUIREMENTS

SMART-CAL™ Calibration Station
Designed for use with:

- SENSIT® CO
- SENSIT® GOLD
- SENSIT® GOLD CGI
- SENSIT® GOLD G2
- SENSIT® HCN
- SENSIT® HXG-3
- SENSIT® HXG-3P
- SENSIT® IRED
- SENSIT® PMD
- Trak-It® III CGI
- Trak-It® IIIa

SCAL-400 Calibration & Charging Station
Designed for use with:

- SENSIT® P400

SCAL-100 Calibration Station
Designed for use with:

- SENSIT® P100 (Black Housing)

SOFTWARE REQUIREMENTS

30MB Hard Drive Space
Windows® 7, 8, 8.1 Operating System
Microsoft® Outlook
Microsoft Excel

PRODUCT SPECIFICATIONS

SCAL-D or SCAL-N Software (User Guide Included)
Printed Installation Guide

SENSIT® P400

Multi-gas personal monitor designed to warn the user of hazardous gases in their working environment.

P400 can be configured with 1 to 5 sensors.

Standard Features
- Extremely Rugged, Intrinsically Safe Design
- Lowest Cost, Long Life Sensors
- Audible Alarm - 3 Tone
- Visual Alarm - 360° View
- Vibration Alarm
- STEL and TWA Alarms
- Compliance/Status Indicator
- Data Logging
- Easy Field Calibration
- Easy Clean Dust Pre-Filter
- Easy-Access Reusable Dust Filter
- Alkaline and/or NiMH Battery
- Limited 2-Year Warranty (Including Sensors)
- Extended Warranty Available

P400 Optional Feature
Immediate Detection System (IDS)
Early warning to changes in gas concentrations

Available Sensors
- Oxygen (O2)
- Carbon Monoxide (CO)
- Hydrogen Sulfide (H2S)
- Hydrogen Cyanide (HCN)
- Nitrogen Dioxide (NO2)
- Sulfur Dioxide (SO2)
- Combustible Gases

COMPLIANCE/
STATUS INDICATOR
ALARM LEDs

SENSOR AREA
SENSOR FILTER

FUNCTION BUTTONS

SOUNDER

GRAPHIC DISPLAY w/BACK LIGHT

BELT CLIP (ON BACK)

Patented

TO OPERATE:
1. Press Power
2. Wait 30 Seconds for Automatic Zeroing
3. Begin to Use

STANDARD KIT
- Belt Clip
- Instruction Manual
- Calibration Adapter
- Dust Pre-Filter
- Alkaline Batteries

KIT OPTIONS
- Confined-Space Entry Kit
- Calibration Station
- Calibration Kit
- Recharger Battery Pack
- Recharger Station

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY	RESPONSE T90 TIMES
LEL	0.1%	0-100	±10%	< 10 Sec
O2	0.1%	25%	±2% or 10%**	< 10 Sec
CO	1ppm	0-999*	±5ppm or 10%**	< 10 Sec
H2S	1ppm	0-100	±2ppm or 10%**	< 20 Sec
HCN	0.1ppm	0-30	±1ppm or 10%**	< 20 Sec
NO$_2$	1ppm	0-250	±2ppm or 10%**	< 20 Sec
PH$_3$	0.1ppm	0-10	±1ppm or 10%**	< 20 Sec
SO$_2$	0.1ppm	0-20	±1ppm or 10%**	< 20 Sec
ETO	0.1ppm	0-10	±1ppm or 10%**	< 20 Sec

*CO Extended Range Available 0ppm - 1999ppm.   ** Whichever is greater

PRODUCT SPECIFICATIONS

Size:	5.2" x 3.2" x 1.7" (13.2 x 8.1 x 4.0 cm)
Weight:	12 oz. (340 g)
Operational Temp:	-4 to 122 F (-20 to 50° C)
Humidity:	10-90% RH (Non-condensing)
Power Source:	4 "AA" Alkaline or NiMH Recharger Pack
Battery Life:	24 Hr. Alkaline or 15 Hr. NiMH
Typical Response Time:	Initial < 2 Sec T90 <10 Sec (LEL)
Sound:	98db @ 15cm

SCAL-400

Automatically charges, bump tests and calibrates up to five SENSIT® P400 Gas Monitors simultaneously.
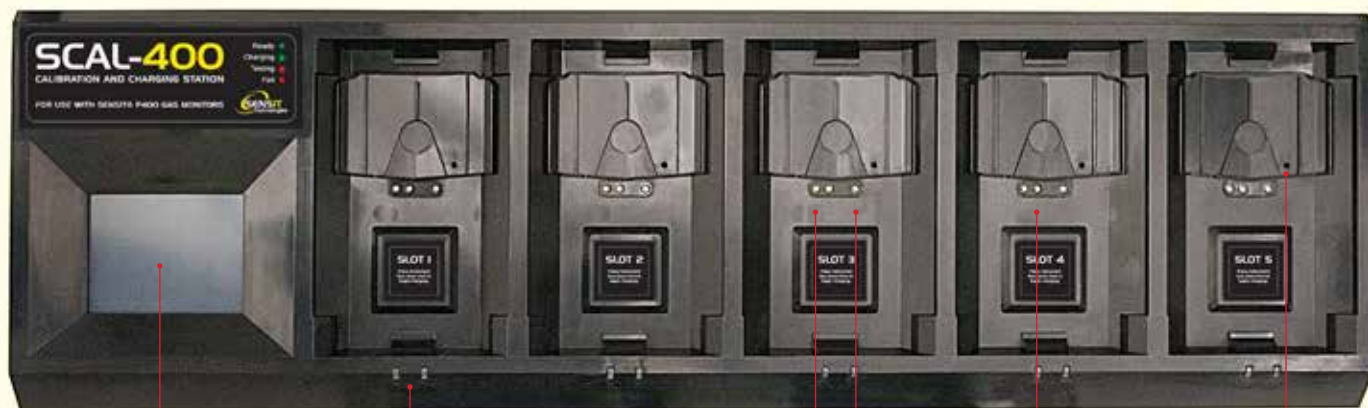
| TOUCH SCREEN | STATUS INDICATORS | | CHARGING PINS | COMMUNICATION PIN | GAS OUTLET |

GAS CONNECTIONS　　POWER CONNECTION　　USB RJ45 SERIAL

All calibration data, time, date, and sensor performance data is stored in the calibrator for download to your computer. Data management software allows automatic uploading from calibrator, creates compliance reports and alerts selected personnel of overdue or failed calibrations.

Standard Features:
- Touch screen operation
- Test up to 5 instruments simultaneously
- Auto operation when instrument is installed
- Indication of pass or fail
- RJ45 intranet connection
- Compatible with Windows 7, 8, 8.1 OS

SCAL-400
Reporting Features:
- Instrument Test Past Due
- Instrument Failure Alerts
- Monthly Compliance Report
- Sensor Performance Data
- Optional Networking System
- Compatible with:
  SCal-D™ (Desktop)
  SCal-N™ (Network)
  Data Management Software

SCAL-400 is designed for use with SENSIT® P400 Gas Monitors

- CH4　• CO　• O2　• H2S
- HCN　• NO2　• SO2　• Combustible Gases

SOFTWARE REQUIREMENTS
30MB Hard Drive Space
Windows® 7, 8, 8.1 Operating System
Microsoft® Outlook (Preferred. Not Required)
Microsoft® Excel (Preferred. Not Required)
Microsoft® SQL Server (SQL Server Express Included)

PRODUCT SPECIFICATIONS
Size:	24" x 7" x 3" (61cm x 17.8cm x 7.6cm)
Weight:	5.75 lb. (2.6 kg)
Operational Temp:	40 – 122 F (5 to 50° C)
Max. Inlet Pressure:	20 PSI
Power:	100-240 VAC

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SENSIT® P100

Single gas personal monitor designed to warn the user of hazardous gases in their working environment.

Standard Features

- Intrinsically Safe Design (Certified)
- One Button Operation
- Audible Alarm
- Visual Alarm
- Vibration Alarm
- STEL and TWA Alarms
- Alarm Event Memory
- Easy Field Calibration
- 2-Year Operation
- Refurbish Program Available After 2-years Of Operation
- Limited 2-Year Warranty (Including Sensor)
- Extended Warranty Available
- For use with SCAL-100 Test Stations

Available Sensors

- Hydrogen Sulfide (H2S)
- Hydrogen Cyanide (HCN)
- Oxygen (O2)
- Carbon Monoxide (CO)
- Nitrogen Dioxide (NO2)
- Sulfur Dioxide (SO2)

ALARM LEDs

SENSOR

SOUNDER

ON / OFF

GRAPHIC DISPLAY

ZERO / CALIBRATE

BELT CLIP (ON BACK)

Patented

STANDARD KIT
- Belt Clip
- Instruction Manual

TO OPERATE:

1. **Press Power**
2. **Wait 30 Seconds for Automatic Zeroing**
3. **Begin to Use**

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE
O2	0.1%	25%
CO*	1ppm	0-999*
H2S	1ppm	0-100
HCN	0.1ppm	0-30
NO$_2$	0.1ppm	0-20
SO$_2$	0.1ppm	0-20

*CO Extended Display Option:

Detection Range:
0ppm - .2% Volume
(2000ppm equivalent)

Resolution:
1ppm for 0 – 999ppm
.01% Volume for 1000ppm – 2000ppm

PRODUCT SPECIFICATIONS

Size:	3.81" x 2.31" x 0.8" (9.67 x 5.87 x 2 cm)
Weight:	3.6 oz. (105 g)
Operational Temp:	-4 to 104 F (-20 to 40° C)
Humidity:	15-90% RH (Non-condensing)
Power Source:	3.6V Lithium Battery
Battery Life:	2+ Years

SCAL-IOO

Calibrates SENSIT® P100 Single Gas Monitors, stores data and manages instrument testing compliance.

All calibration data; time, date, sensor and pump performance data is stored in the calibrator for download to your computer. Data management software allows automatic uploading from calibrator, creates compliance reports and alerts selected personnel of overdue or failed calibrations.

Design to Test/Calibrate SENSIT® P100 Monitors

- O2
- CO
- H2S
- HCN
- NO2
- SO2

Standard Features:
- Indicates proper gas pressure
- Automatic operation
  when instrument is installed
- Indication of pass or fail
- RJ45 intranet connection
- Wall or desk mount
- Compatible with Windows 7, 8, 8.1 OS

SMART-CAL™
Reporting Features:
- Instrument Test Past Due
- Instrument Failure Alerts
- Monthly Compliance Report
- Sensor Performance Data
- Optional Networking System
- Compatible with:
  SCal-D™ (Desktop)
  SCal-N™ (Network)
  Data Management Software

Available Test Gases*
- Oxygen - O2
- Carbon Monoxide - CO
- Hydogen Sulfide - H2S
- Hydrogen Cyanide - HCN
- Nitrogen Dioxide - NO2
- Sulfure Dioxide - SO2

*Contact Sensit Technologies for more info.

LAN CONNECTION
POWER CONNECTION

IR COM

GAS OUTLET

MOUNTING PLATE

GAS INLET

RETAINING CLIP
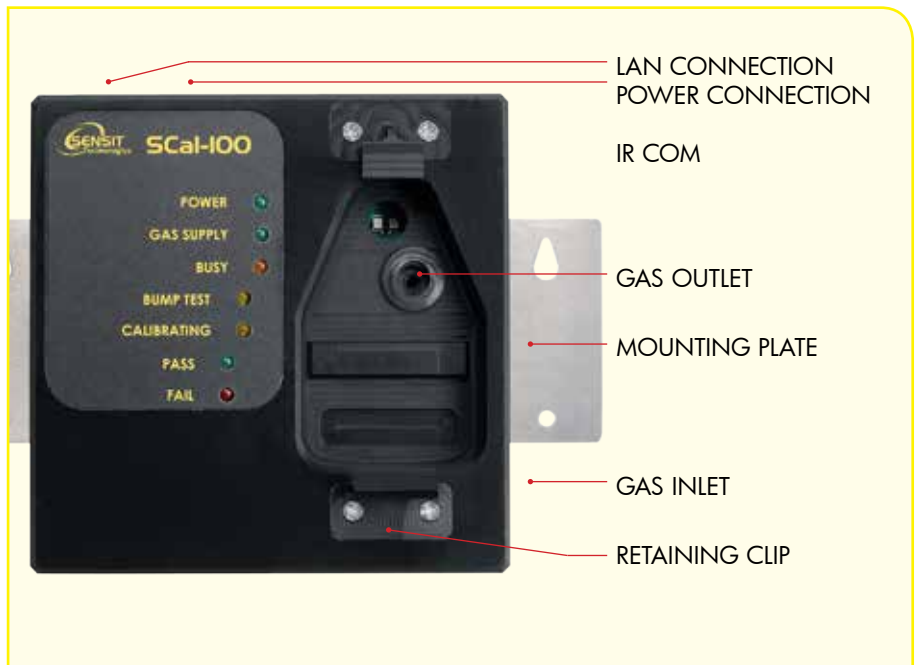
For use with Black P100 Models Only.

SOFTWARE REQUIREMENTS

30MB Hard Drive Space

Windows® 7, 8, 8.1 Operating System

Microsoft® Outlook

Microsoft Excel

PRODUCT SPECIFICATIONS

Size:	6" x 6" x 1.75" (15.24cm x 15.24cm x 4.5cm)
Weight:	2 lb. (0.9 kg)
Operational Temp:	40 – 120 F (5 to 50° C)
Max. Inlet Pressure:	20 PSI
Power:	100-240VAC 50/60Hz 0.2A input with 2VDC 0.5A output

SENSIT® CO

Use SENSIT® CO for Carbon Monoxide testing in residential and commercial buildings.

With its powerful rotary pump, hot air probe and bright LCD display, the **SENSIT® CO** is perfect for testing ambient air and hot gas samples.

Infrared communication allows printing of test results to a compact printer (accessory) or PC simple and convenient.

Applications
• CO Investigations
• Flue Gas Testing
• Equipment Inspection & Testing

Standard Features
• Internal Pump
• Flue Probe with Water Trap
• Audible/Visual Alarms
• Backlit LCD Display
• Automatic Zeroing
• Field Calibration
• Calibration Alerts
• Memory Storage
• Infrared Download
• Hard Carrying Case

Optional Features

Oxygen Sensing:
Display Oxygen and CO Simultaneously

Air-Free CO Reading:
Automatically Calculates CO Based on Air-Free Calculation

STANDARD KIT
• Hard Carrying Case
• 3 "C" Batteries
• Flue Probe
• 5 Foot Flexible Tubing
• Particle Filter
• Wrist Strap
• Instruction Manual

WATER / DIRT FILTER
HOT AIR PROBE
INFRARED COMMUNICATIONS
BACKLIT LCD DISPLAY
ALARM LEDs
OPERATION BUTTONS
BATTERY COMPARTMENT

Patented

TO OPERATE:
1. **Press Power**
2. **Wait 45 Seconds for Automatic Zeroing**
3. **Begin to Use**

SENSOR SPECIFICATIONS

TYPE	RESOLUTION	RANGE	ACCURACY
CO	1ppm	0-2,000 ppm	±5ppm or 5%**
CO "Air Free"*	1ppm	0-5,000 ppm	±5ppm or 5%**
O2*	0.1%	0-25%	±0.2% or 10%**
*Optional Configuration			**Whichever is greater

PRODUCT SPECIFICATIONS
Size: 3" x 10" x 2.4" (7.6 x 25.4 x 6cm)
Weight: 1.1 pounds (0.5kg)
Operational Temp: -4 to 104° F (-20 to 40° C)
Battery Life: Alkaline: Approximately 30 hrs. Continuous

ULTRA-TRAC® APL

Acoustic Pipe Locator (APL) finds unmarked underground pipe, reducing potential third party damages.

ULTRA-TRAC ® APL is the perfect choice for accurately locating unmarked buried piping systems. APL finds plastic pipe systems and other pipelines with broken or missing tracer wire. Natural gas, water and sewer laterals are easily traced with no system access required!

The APL Tablet application processes and converts acoustic data into a graphical format to determine pipe location.

Benefits:
- Easy to use
- Easy to interpret
- Locates systems in minutes
- No system access required
- Operates in soil, grass, gravel, concrete and asphalt covering

Standard Features:
- Large Graphic Display
- Rugged Construction
- 25 Hour Recharge Battery Life
- Compact Storage

Materials Sensed (Partial):
- Plastic Pipe
- Clay Tile
- Metallic Pipe
- Cast Iron
- Concrete Pipe
- Ductile Iron

Applications:
- Locate Gas Piping
- Locate Gathering Lines
- Locate Sewer Laterals
- Locate Water Lines
- Locate Drainage Lines
- Locate Electrical Conduit
- Locate Fiber Optic Conduit
- Find piping systems where there is no tracer wire (or broken wire)

Industries:
- Natural Gas Utilities
- Locate Contractors
- Municipal Water/Sewer
- Oil Companies
- General Contractors
- Industrial Maintenance
- Telecom Companies
- HDD Contractors
- Excavation Contractors

DISPLAY

CHARGING INDICATOR

SPEAKER

SCAN BUTTON

POWER BUTTON

SPECIFICATIONS

Size (inches):	Handle 48; Base 20" X 10" X 10" (L x W x H)
Weight:	26 LBS
Operational Temp: -	4°F to 122°F (-20°C to 50°C)
Storage Temp:	-20°F to 140°F (-29°C to 60°C)
Battery life:	Base: 25 hours
	Tablet: 6 hours
Battery Type:	Base: 16vdc Lithium-ion
	Tablet: 7.4vdc Lithium-ion