

SENSIT[®] TRAK-IT 4

MULTI GAS DETECTOR

For use with combustible gases and optionally available oxygen and toxic gases.

INSTRUCTION MANUAL

Read and understand instructions before use.



Intrinsically safe for use in:

Class I Div. 1

Groups C, D

Temp Classification: T4, IP64

Hazardous Locations

⚠ WARNING: To prevent ignition of flammable or combustible atmosphere, disconnect power before servicing.

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SPECIFICATIONS

GAS	SENSOR TYPE	RESOLUTION	RANGE	ACCURACY
CH4 (PPM)	Metal Oxide Semiconductor	1 ppm until 5,000 ppm 10 ppm until 50,000 ppm	0-50,000 ppm	±10% or 500 ppm*
CH4 (%LEL)	Metal Oxide Semiconductor	Variable: 0.1 % - 2.0 % Increments	0-100%	±10% or 1%*
CH4 (%VOL)	Thermal Conductivity	0.1 %	5-100% Methane	±5%
O2	Electrochemical	0.1 %VOL	0-25 %VOL	±10 or 0.2 %VOL*
CO	Electrochemical	1 ppm	0-2,000 ppm	±5% or 5 ppm*
H2S	Electrochemical	1 ppm or 0.1 ppm	0-100 ppm	±5% or 2 ppm*
HCN	Electrochemical	1 ppm or 0.1 ppm	0-30 ppm	±5% or 1 ppm*

*whichever is greater

KEY PRODUCT SPECIFICATIONS

SIZE	8.3" x 4.2" x 4.0" (21.1 x 10.7 x 10.2 cm)
WEIGHT	2.9lbs (1.3kg)
OPERATIONAL TEMP	-4 to 122° F (-20 to 50° C)
STORAGE TEMP	-4 to 140°F (-20 to 60° C)
OPERATING HUMIDITY	15 - 95% RH Non-Condensing
START-UP TIME	<60 seconds
BATTERY LIFE	16 hrs Continuous with Rechargeable Li-ion Battery
RECHARGE TIME/TEMP	6 hrs, 32°F to 104°F (0°C to 40°C)
HOUSING	TPE overmolded - Polycarbonate (PC)
DISPLAY	3.2" TFT LCD with Back-lighting
PUMP SPEED	High - 0.85 LPM, Low - 0.45 LPM
IP RATING	IP64
DATALOGGING	Integrated GPS with Bluetooth wireless connectivity, supports high-speed download (up to 475,000 logs at 1 log/sec)
SOFTWARE COMPATIBILITY	SmartLink 360

KEY FEATURES

The **SENSIT® TRAK-IT 4** is a configurable combustible gas indicator designed for construction and utility field applications. It features a rugged, brick-style form factor that supports robust, hands-free operation, making it well-suited for demanding field environments where durability and ease of use are critical.

The **TRAK-IT 4**, like the Gold 3 platform, supports up to five (5) sensor configurations, allowing alignment with a wide range of operational and compliance requirements for your organization.

The **TRAK-IT 4** is initially configured at the time of order using a customer-approved Setup Sheet, submitted with the quote or purchase order. You will be supported by SENSIT's customer service team throughout this process. This ensures consistent configuration across current and future instrument orders. Configuration changes requested after shipment may require firmware updates; customers should contact SENSIT Customer Service for additional details. Detailed configuration options are described in the "Expert Menu" and "User Menu" sections of the manual.

COMBUSTIBLE GAS SENSOR

All **SENSIT® TRAK-IT 4** instruments incorporate a highly sensitive, uniquely designed metal oxide semiconductor (MOS) sensor. Sensor function and accuracy are continuously monitored and controlled by specialized circuitry and a microprocessor. This sensor is capable of measuring methane concentrations as low as 1 ppm, up to 100% LEL (5.0% vol).

To support measurement of high-concentration combustible gases, the **TRAK-IT 4** also utilizes a thermal conductivity (TC) sensor. The TC sensor is specifically designed to accurately and rapidly measure gas concentrations above 100% LEL, up to 100% vol, enabling safe and reliable operation in environments where elevated gas levels may be present.

Gas readings automatically transition between ppm, %LEL, and %vol measurement scales without operator input. Measurement scales and automatic switch points are configurable by the customer during instrument setup.

ELECTROCHEMICAL SMART SENSORS

All other sensors in the **SENSIT® TRAK-IT 4**, if equipped, are "electrochemical" type sensors. Options for these sensors are:

- Oxygen (O₂)
- Carbon Monoxide (CO)
- Hydrogen sulfide (H₂S).
- Hydrogen cyanide (HCN)

The maximum number of available "slots" for these sensors is 3. However, detection capability for all 4 is available (making the instrument a 5-gas detector), in which case the CO and H₂S sensors will be a combination combination dual-tox (CO/H₂S) sensor. This sensor has a detectable CO range from 0 - 1,000 ppm and H₂S range from 0 - 100 ppm..

RECHARGEABLE BATTERY AND CHARGING

The **SENSIT® TRAK-IT 4** is powered by a rechargeable lithium-ion battery that provides reliable operation throughout a full-day shift (Up to 16 hours). Charging is performed using the included 12 VDC charger, which features LED indicators to display charging status.

While the battery is designed for long service life, replacement and swaps can be performed by trained service professionals as necessary.

TWO-SPEED PUMP AND SAMPLING SYSTEM

All **SENSIT® TRAK-IT 4** instruments are equipped with a high-performance internal pump designed to provide efficient sample flow across multiple operating modes. The pump operates at two flow rates depending on the selected mode of operation.

When the instrument is in BARHOLE or LEAK SEARCH mode, the pump runs at the high-flow setting (0.85 L/min) to enable faster response and more efficient leak investigation. When operating in the Work Display or other test modes, the pump automatically switches to a low-flow setting (0.45 L/min) to reduce power consumption while maintaining accurate measurements.

A hydrophobic dirt and water filter installed at the sample inlet protects the pump and internal components from moisture and particulate contamination. In addition, an internal micron filter provides a secondary level of protection against fine debris that could otherwise damage the pump or sampling system.

If a restriction or blockage is detected within the sampling system, the instrument will display a Flow Blocked message to alert the operator.

LED INDICATOR

The LED indicator on the **SENSIT® TRAK-IT 4** displays different colors and patterns to alert the operator of various conditions. See the chart below for information on each.

COLOR	INDICATION
Solid Green	"Ready" indication. No current alarm condition or failure.
Blinking Green	1. Low battery indication. The work display will also give an indication on screen to alert the operator. 2. In Confined Space Mode, the LEDs will blink off every 30 seconds (adjustable).
Solid Amber / Yellow	"LOW" or "HIGH" alarm condition (depending on configuration) for combustible gas. The default setpoint for this is 5.0%LEL.
Solid Red	"HAZ 1 & 2" conditions for combustible gas. Both will also be indicated on the work display. "HAZ1" is triggered at $\geq 10\%$ LEL "HAZ2" is triggered at $\geq 25\%$ LEL
Blinking Red	1. Any alarm conditions. How fast the LEDs blink is determined by the alarm level (low, high, or high-high). For combustibles, this is a "HAZ 3" alarm. 2. Sensor failure. 3. Flow Blocked

DATA LOGGING & GPS

The **SENSIT® TRAK-IT 4** continuously records instrument data during operation, providing a complete record of readings, activity and measurement conditions.

Each data log entry includes:

- Gas readings from installed sensors
- Date and time stamp
- GPS location, if equipped and a valid signal is present (latitudinal and longitudinal coordinates)

Data is automatically recorded at a defined interval (typically up to one log per second), ensuring high-resolution capture of field activity. The instrument provides substantial on-board storage capacity, including:

- Up to approximately 475,000 data log records
- Additional stored logs for sessions, calibrations, bump tests, purge events, and system activity

When memory capacity is reached, the **TRAK-IT 4** continues to record data by overwriting the oldest records, allowing uninterrupted logging during extended use. Logged data can be downloaded via Bluetooth using compatible software platforms for analysis, reporting, and export.

FIELD-REPLACEABLE LEL SENSOR

The **SENSIT® TRAK-IT 4** is designed with a field-replaceable LEL sensor, allowing operators to quickly access, remove, and replace the sensor directly in the field. The sensor cavity can be easily opened, giving direct access to the LEL sensor for removal and installation without the need to return the instrument for service. This design helps reduce instrument downtime and keeps crews operational during critical leak investigation and compliance work.

A dedicated LEL sensor removal tool is included in the standard **TRAK-IT 4** ship kit, ensuring technicians have what they need to safely perform sensor replacement without additional equipment. Proper installation is important to ensure accurate operation; orientation and seating of the sensor must be verified after replacement. For detailed instructions, refer to the LEL Sensor Replacement (in *italic*) section of this manual.

WORK DISPLAY OPTIONS

COMBUSTIBLE GAS SCALE AND RESOLUTION

The combustible gas reading will be automatically displayed on the **SENSIT® TRAK-IT 4** using one or more of the following scales: PPM, %LEL, and/or %VOL. By default, the reading starts in the %LEL scale (starting at 0.0%LEL). When the reading reaches 100 %LEL (equal to 5.0 %VOL by default; see *LEL Definition*), the display will automatically switch to %VOL if a TC sensor is installed.

If the %LEL option is disabled, the instrument will display %VOL across the entire range:

- Up to 5%VOL without a TC sensor
- Up to 100%VOL with a TC sensor.

If the PPM option is enabled, the instrument will begin displaying in PPM (starting at 0 ppm). The reading will automatically scale to %LEL (if enabled) and %VOL once the configured upper PPM limit is reached. The default upper limit is 2,000 ppm (bold), with additional options of 5,000 ppm, 10,000 ppm, or 50,000 ppm.

When set to 50,000ppm, the instrument will not transition to %LEL, even if enabled, since this value corresponds to 100 %LEL at the highest LEL definition.

In addition, the display resolution for the PPM and %LEL scales are customizable. The default work display resolutions and options for each scale are listed below.

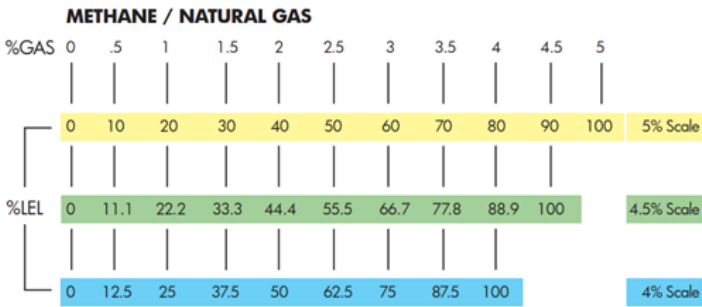
SCALE	DEFAULT	RESOLUTION
PPM	Disabled	1 ppm or 10 ppm (user-selectable)
%LEL	Enabled [0.1%LEL resolution]	Adjustble 0.1% - 2.0% LEL [0.1% increments]
%VOL (TC UNITS)	Enabled	<5.0%VOL: 0.01%VOL ≥5.0%VOL: 0.1%VOL
%VOL (NON-TC UNITS)	Disabled	Not Applicable

ELECTROCHEMICAL SENSOR RESOLUTION

GAS	DEFAULT	RESOLUTION
CO	1 ppm	1 ppm (not adjustable)
O2	0.1 %VOL	0.1 %VOL (not adjustable)
H2S	1 ppm	0.1 or 1 ppm
HCN	0.1 ppm	0.1 or 1 ppm

LEL DEFINITION

By default, the **SENSIT® TRAK-IT 4** defines the lower explosive limit (LEL) as 5.0%VOL methane and 2.2%VOL propane. This is adjustable (via Factory Menu Settings) between 4.0% and 5.0% for methane and 1.8% and 2.2% for propane, in 0.1% increments. This will affect how the instrument displays the %LEL scale. For example, if the LEL definition is 4.0%VOL, 2.5%VOL methane will display as 62.5%LEL. Reference the methane/natural gas chart below.



NON-STANDARD READINGS

When equipped with the optional TC sensor, the **SENSIT® TRAK-IT 4** has two “non-standard” readings available: NSR (non-standard response) and NSC (non-standard combustible). These can be triggered on the work display, leak search or in barhole mode.

NSR

NSR stands for “non-standard response”. In the case of NSR, the gas is likely not combustible. If the **SENSIT® TRAK-IT 4** gas type is set for natural gas (methane), NSR likely indicates a gas that is heavier than air such as carbon dioxide, and if the gas type is set for propane, NSR likely indicates a gas that is lighter than air such as helium.

NSC

NSC stands for “non-standard combustible”. In the case of NSC, the gas is likely combustible. If the **SENSIT® TRAK-IT 4** gas type is set for natural gas (methane), NSC likely indicates a combustible gas heavier than air such as propane, butane, gasoline vapors, etc. If the **SENSIT® TRAK-IT 4** gas type is set for propane, NSC likely indicates a combustible gas lighter than air such as natural gas, naturally occurring methane, or hydrogen.

CALIBRATION

The SENSIT® TRAK-IT 4 supports multiple calibration methods to ensure accurate sensor performance in both field and shop environments. The following calibration types are available:

CALIBRATION METHODS

Automatic Calibration (AUTOCAL):

A guided calibration process initiated directly on the instrument's User Menu.

AUTOCAL walks the user through the required steps and applies calibration using preset gas values. The process automatically moves the user from one sensor calibration window to the next.

Manual Calibration (MANUAL CAL):

Allows the operator to manually apply calibration gas and complete the calibration process without guided prompts. The user can manually move through each sensor calibration window.

Smart-Cal360 Calibration:

Calibration can be performed using a compatible SMART-CAL 360 station. When connected via Bluetooth, the calibration process is executed automatically and the instrument is updated without manual input.

CALIBRATION CONFIGURATION

Calibration behavior is defined by the following settings:

- Gas Type: Determines the primary gas used for combustion calibration (Methane vs. Propane) and affects how readings are displayed and interpreted.
- Calibration Point: Defines the reference concentration used during calibration (default: 2.5% VOL methane, optional: 2.2% VOL)

GAS TYPE

The **SENSIT® TRAK-IT 4** supports two different combustible gas types: natural gas (methane) and propane. The combustible gas reading will show which is currently set. This can be adjusted in the User Menu (Gas Type). The GAS TYPE setting only affects what calibration is applied, how the display reading is shown and how NSR/NSC are handled. It does not limit what gasses the LEL sensor will respond to.

NOTE: Currently only natural gas (methane) is available as a GAS TYPE option.

METHANE CALIBRATION POINT

The default calibration point for methane is 2.5%VOL. This setting can also be set to 2.2%VOL.

ALARMS

The **SENSIT® TRAK-IT 4** has audible and visual alarms to warn the operator when hazardous conditions are being sensed. There are alarm setpoints specific to the work display, leak search mode, and confined space mode. Visual alarms are shown through LED indicators positioned vertically along each side of the unit display, which change colour based on alarm conditions. See the following sections for information on each.

WORK DISPLAY ALARMS

WORK DISPLAY ALARM SETPOINTS	DEFAULT
LEL	50.0% LEL
PPM	0 ppm
CO	35 ppm
O2 - DEPLETION	19.5% VOL
O2 - ENRICHMENT	23.5% VOL
H2S	10.0 ppm
HCN	4.7 ppm
SO2	2.0 ppm
NO2	3.0 ppm

UEL SETPOINTS	DEFAULT
NAT	17.0% VOL
PRO	12.0% VOL

LEAK SEARCH MODE ALARM (IF ENABLED)

The LEL alarm, and UEL set points, outlined above in the work display section are active while in leak search mode. There is also an additional alarm specific to leak search mode. By default, this alarm is set to 50 ppm (unless otherwise noted on the setup sheet).

QUICK START

1. Remove the instrument from the soft pouch and any necessary accessories.
2. Press and hold the A button until the instrument powers on. The LED dome will illuminate and the SENSIT logo will be shown on the display.
3. In clean air, allow the instrument to go through the startup sequence, warmup, and Autozero. This typically takes around 30 seconds, but if the battery was disconnected it can take up to 5 minutes.
4. An automatic flow block test may be prompted during startup. If so, place your finger over the inlet at the end of the gooseneck and wait until the test passes. This should happen within 5 seconds. If flow block cannot be achieved, contact SENSIT Technologies for assistance. If the automatic flow block test is not prompted during startup, perform this test after the Autozero is complete and the work display is shown. FLOW BLOCKED will be displayed.

NOTE: If any FAIL messages occur during the Autozero, ensure that the instrument is in clear air, and attempt the zero again by pressing and holding the C button until AUTOZERO is shown on the display. Contact SENSIT Technologies if the instrument cannot pass the Autozero.

5. The work display will be shown with gas readings. Up to (5) total gasses can be shown from the following: EX, CO, O2, H2S, HCN, SO2. If equipped with the TC sensor, the combustible gas reading will automatically scale into the percent volume range after the LEL range.
6. Once the work display is shown with no fail messages, and a flow block check has been successfully done, you are ready to use the instrument.
7. Following federal, state, municipal, and/or company procedures, conduct the leak investigation, survey, or other procedures as needed.
8. If the source of an odor or known leak needs to be pinpointed, use the TICK feature. To enable, press and release the B button to enter the quick menu. Press and release the B button again to enable tick.
An audible ticking sound will be heard. Move the end of the gooseneck towards the area suspected of leakage. As you get closer to the source, the tick rate will increase. Press and release the B button or roll back the thumb wheel to decrease the tick. Press and release the A button to deactivate.
9. Any NSC reading shown on the display indicates a "non-standard combustible" gas has been detected.
Any NSR reading shown on the display indicates a "non-standard response", which means the instrument has detected a non-combustible gas that it isn't calibrated for.
10. To zero out very small levels of gas, press and hold the C button until autozero is shown on the display. This should only be done to set the instrument zero to your working environment, (e.g. to zero out a small level of CO on a street with heavy vehicle traffic). The instrument will not allow a zero if unsafe levels of gas are present and will show a fail message.
11. When your investigation is complete, press and hold the A button until the instrument displays POWER OFF SHUTDOWN.

OPERATION AND USE

⚠ CAUTION: Always start/zero any SENSIT® TRAK-IT 4 in a clean air environment.

NOTE: Please read this section of the instruction manual before using your SENSIT® TRAK-IT 4.

POWER-ON AND STARTUP SEQUENCE

Before powering on the SENSIT® TRAK-IT 4, ensure that you are in a clean air environment, with a fully charged battery.

Press and hold the **A** button until the SENSIT logo appears on the display and the LED indicator illuminates. During startup, the instrument performs hardware and firmware system checks and displays the next calibration due based on your configured calibration interval.

The instrument will not be ready to use until it reaches the work display, and both a successful autozero and flow block check have been performed. Startup typically take less than 60 seconds but may take up to a maximum of 5 minutes depending on the sensor conditions.

BUMP TEST AND CALIBRATION

To verify the accuracy of any SENSIT® TRAK-IT 4, it must be exposed to a known concentration of test gas that will test the sensor combination included in your model. This is known as “bump testing”. This can be done either by exposing the instrument to gas from the work display or using the bump test feature in the User Menu (hold B for 5 seconds) which specifically tests each sensor and gives a pass or fail message. For more information, see the *Bump Test* section in this manual.

A bump test must not be a substitute for calibration and does not update the calibration due date. A full calibration is required to reset the calibration due dates for each individual sensor.

A Calibration Past Due message will be displayed during startup if calibration has not been performed within the company-specified interval. If the SENSIT® TRAK-IT 4 is suspected to be not operating properly or reading gas incorrectly, please check its calibration status.

THE WORK DISPLAY

After the startup process, the work display will be shown. This is the main working screen of the instrument, and what will be used most of the time when detecting gas. The live readings are shown on screen simultaneously for all sensors installed in the instrument.

FILTER INTEGRITY AND FLOW BLOCK CHECK

After startup, a flow block check must be successfully completed before the instrument is ready for use. Attach the quick connect fitting to the pump inlet and cover the fitting for 1-2 seconds for flow block to occur successfully. If a probe is attached to the pump inlet, then block the probe tip to perform a flow block. The instrument should detect a flow block within 10–20 seconds.

If a flow block is not detected, inspect the integrity of all O-ring seals and connections to ensure an airtight system. If the issue persists, remove the quick-connect fitting and twist out the locking nut to gain direct access to the pump inlet filter and flow-block interface, then repeat the check. Proper sealing is critical for accurate readings.

READY FOR USE

Once startup, autozero and the flow-block check are complete, the instrument is ready for use. The “work display” will show live gas readings. The readings from all currently installed sensors will be shown simultaneously. The operator does not need to leave this screen for most general-purpose applications. However, there are specialized test modes for specific applications, such as BAR HOLE TEST and PURGE MODE. See the *Quick Menu* section for more information on these.

To use the **SENSIT® TRAK-IT 4** for gas detection, always follow federal, state, municipal, and/or company procedures, then follow these generalized steps below for using the **SENSIT® TRAK-IT 4**.

1. After startup, a flow block check must be successfully completed before the instrument is ready for use. Attach a probe (if applicable), then block the inlet (or probe tip) to verify proper pump function—the instrument should detect a flow block within 10–20 seconds. If the flow block is not detected, check connections and fittings for leaks or improper sealing before proceeding.
2. For below-grade leak investigations, Bar Hole Test mode provides a dedicated, standardized method to measure combustible gas in the %VOL range using a high-speed pump and timed test sequence to ensure consistent, repeatable results. This mode displays real-time and peak, allowing operators to efficiently grade leaks and evaluate gas migration patterns. Each test is automatically logged with key data for traceability, supporting both field decision-making and post-survey analysis.
3. It may be necessary to manually zero the instrument based on company practices and environmental conditions. To do so, press & hold the **C** button until AUTOZERO appears at the top of the screen. Always zero the instrument in a clean air environment.
4. When testing areas with elevated temperatures such as appliance vents or flues, always attach the optional hot air probe to the quick connect fitting. These connections need only be finger tight. Failure to use the approved probe can result in damage to the instrument and may void the warranty. Always perform a flow block check when using any probe or attachment.
5. The sensors will cause the display to update when a gas is encountered. Additionally, if a combustible gas is encountered a combination of LED patterns and messages on the work display will occur when the preset concentrations are reached. If any alarm condition exists for any sensor, based on their preset alarm points, the red LED will flash, and the alarm will sound unless it is muted. Additionally, the reading for the gas exceeding the alarm set point will also flash. The standard alarms and LED patterns can be found in the *Key Features* section.
6. To mute the alarm, quickly press and release the **A** button. To enable the alarm, press and release the same button again. During an alarm, the gas that has exceeded the preset alarm point will flash on the display, HAZARD 3 will be shown on the display, and the red LED will flash indicating a potentially unsafe condition. When combustible gas readings exceed the alarm range, the audible alarm will turn off. If the alarm condition no longer exists, the alarm sound will activate if a new alarm condition is encountered.
7. To assist in locating small leaks, utilize the TICK feature. See the *Quick Menu* section for more information.
8. Following Federal, State, Municipal and/or Company procedures move to the areas where gas readings are suspected or must be tested. Use necessary accessories to draw samples from areas not accessible with the instrument itself, such as confined spaces or flues. During sampling, the respective readings may change. Audible and visual alarms will activate when the preset limits are reached.

9. When equipped with the TC sensor, the instrument may read "NSR" or "NSC" followed by a number. If the instrument gas type is set for natural gas, "NSR" (Non-Standard Response) likely indicates a heavy noncombustible gas (i.e.: heavier than air, such as carbon dioxide, etc.). If the response is "NSC" (Non-Standard Combustible) the gas is likely a heavy hydrocarbon, such as gasoline, propane, butane, etc.

POWER OFF & BATTERY CHARGING

POWER OFF

To power off the **SENSIT® TRAK-IT 4**, ensure you are in a clean air environment, and then press and hold the **A** button until the power off screen is shown. The instrument will automatically purge for 10 seconds and then power off. During this sequence, you can press and release the **A** button again to stop the power off process.

BATTERY CHARGING

The **SENSIT® TRAK-IT 4** Li-ion battery pack is charged while installed in the instrument. Connect the supplied 12 VDC charger directly to the charging port on the instrument. The instrument can be operated while charging.

The charger LEDs provide charging status:

Orange/Yellow - Charger has power

Red - Battery is charging

Blinking red - Battery is outside charging temperature range

Green - Battery is fully charged

A full charge requires approximately 6 hours. For best performance, keep the contacts on the battery pack and charger connector clean. Spare battery packs are available for purchase to extend field use.

REPLACEABLE LEL SENSOR

The **SENSIT® TRAK-IT 4** is designed with a field-replaceable LEL sensor, allowing operators to service or replace the sensor quickly without returning the instrument for service and repair. The sensor is located within the sensor cavity and can be accessed by opening the cavity door and removing the sensor cap. A dedicated removal tool is included in the standard ship kit to assist with this process.

Proper installation of the LEL sensor is critical to ensure accurate readings and reliable operation. Care should be taken when disconnecting and reinstalling the sensor, and all components must be securely reassembled before returning the instrument to service. After replacement, always perform an Autozero and verify proper operation.

REPLACING THE LEL SENSOR

1. Power off the instrument before beginning any service or replacement of the LEL sensor.
2. Open the sensor cavity door by removing the two captive screws using the provided removal tool (included in ship kit) or a Phillips head #0 screwdriver.

3. Carefully disconnect the sensor connector from the sensor board
4. Remove the captive screw (using the same removal tool) securing the sensor cap and lift off the cap to expose the LEL sensor.
5. Remove the existing LEL sensor and install the new (or repaired) LEL sensor in place. Ensure it is aligned correctly before placing the sensor cap back over the sensor and securing it with the captive screw.
6. Reinstall the sensor connector, ensuring it is fully seated and close the sensor cavity door with both cavity screws properly tightened.
7. Power on the instrument, perform an autozero and confirm proper operation before use. If the autozero fails or a SENSOR FAIL message appears, please power off the instrument and repeat the previous steps.

INSTALLING A REPLACEMENT FILTER

The **SENSIT TRAK-IT 4** is equipped with a 1 µm inlet syringe filter to protect the internal sampling system. To access the filter, loosen the locking nut at the pump inlet (where the quick connect fitting is attached) by turning it to the right, then carefully pull the fitting out to expose the filter. Remove the existing filter and install a replacement, ensuring all components are handled gently and reassembled securely to avoid damage to the inlet or surrounding fittings.

If the pump inlet is temporarily blocked during this process, a flow block indication may occur; this is expected and will clear once the inlet is unobstructed. If issues persist after replacement, contact SENSIT® Customer Service for further assistance.

CALIBRATION/BUMP TESTING

SMART-CAL (AUTOMATIC CALIBRATION/BUMP TESTING USING THE SMART-CAL 360)

STANDARD FEATURE

The **SENSIT® TRAK-IT 4** is compatible with the SMART-CAL 360 calibration/bump test station. Using the station completely automates the calibration/bump test process. Gasses are attached semi-permanently to the station, and all the user must do is attach the hose, start the process on the instrument and station by pushing a button. Calibration or Bump testing will automatically proceed and at the end give the operator either a pass or fail indication.

The operator also has the option to manually calibrate/bump test the instrument by attaching bottles of gas, through the manual calibration or bump test menu.

For more information on the SMART-CAL 360, contact **SENSIT Technologies**.

The SMART-CAL menu is used to put the **SENSIT® TRAK-IT 4** in a communication mode to calibrate/bump test the instrument using the SMART-CAL 360. The instrument must be put in this mode, and then calibration/bump testing can be done using the station. Follow the instructions in the sections below to do so.

TO ENABLE SMART-CAL MODE:

Allow the instrument to warm-up for 5 minutes. From the work display, press and hold the **A** button for 1-2 seconds and release. SMART-CAL ENABLED will be shown on the display. Do not hold the button too long, otherwise the instrument will go to the power off screen. The instrument is now ready for calibration.

NOTE: You may see a brief “wait” message while Smart-Cal mode is being enabled. Within a couple seconds, you should see the “enabled” message.

PERFORMING A SMART-CAL CALIBRATION/BUMP TEST:

1. Once the **SENSIT® TRAK-IT 4** is showing SMART CAL ENABLED, attach the instrument hose and press CALIBRATION or BUMP on the touchscreen of the SMART-CAL 360. If only 1 **SENSIT® TRAK-IT 4** is in range and in Smart-Cal mode, communication will be established and the **SENSIT® TRAK-IT 4** will display SMART-CAL CONNECTED. The calibration will proceed from there.
2. If more than one device is in range and in Smart-Cal mode, a list of available devices will be shown. Select the appropriate **SENSIT® TRAK-IT 4** serial number of the instrument you are calibrating/bump testing. Communication will be established and the **SENSIT® TRAK-IT 4** will display SMART-CAL CONNECTED. The calibration/bump test will proceed from there.
3. When the calibration or bump test process is complete, a message will be shown displaying the status (success or failure) along with the corresponding LED status (green=passed and red=failed).

If calibration fails, attempt a second calibration . If calibration still does not pass, remove the instrument from service and contact the factory for assistance. If bump test fails, attempt a calibration.

AUTOCAL

The AUTOCAL process in the **SENSIT® TRAK-IT 4** is a semi-automated calibration process for all sensors currently installed in the instrument. The instrument will prompt when each gas and the specific concentration is to be applied.

TO PERFORM AN AUTOCAL:

Allow the instrument to warm-up for 5 minutes. In a gas free environment, press and hold the **C** button until “autozero” is displayed. If autozero passes, move on to #1.

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the until CALIBRATION is shown.
3. Press and release the **B** button to enter the CALIBRATION menu.
4. The first option shown will be AUTO CALIBRATION. Prepare your calibration gas, and then press and release the **B** button to begin the process.
5. The user will be prompted to attach the first gas, which will be METHANE LEL 2.5 VOL. Attach the gas within the 30 second timer shown, and wait for calibration to proceed. An audible beep will be heard when the calibration is finished (either passed or failed).
6. A message will be displayed to attach the next calibration gas. Follow the same procedure for each gas: attach the gas shown on screen and wait for the calibration to finish, followed by a beep and a prompt to attach the next gas.
7. After all calibrations have finished, a results screen will be shown, with individual passed,-

failed or skip messages for each sensor.

NOTE: If FAILED is shown for any sensor, attempt calibration again. If successful calibration cannot be achieved, remove the instrument from service and contact the factory for assistance.

8. Press and release the **A** button once to return to the USER MENU or twice to return to the work display.

MANUAL CALIBRATION

The **SENSIT® TRAK-IT 4** gives the operator the option to manually calibrate each sensor type individually. This is a more manual process than the AUTOCAL option, but can be useful if you only need to calibrate one sensor, or if you are attempting a re-calibration of a sensor after a failure and do not want to re-calibrate every sensor.

Each of the following sections give instructions for manually calibrating each sensor type currently available.

MANUAL CALIBRATION: METHANE LEL 2.5 %VOL

NOTE: The methane 2.5%VOL calibration point combines two different calibrations, for both sensors that are calibrated to that gas (LEL and TC).

Allow the instrument to warm-up for 5 minutes. In a gas free environment, press and hold the **C** button until "autozero" is displayed. If autozero passes, move on to #1.

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CALIBRATION is shown.
3. Press and release the **B** button to enter the CALIBRATION menu.
4. Press and release the **C** button until ATTACH METHANE LEL 2.5 VOL is shown.
5. Attach 2.5%VOL methane calibration gas to the quick connect fitting and then press and release the **B** button to start the calibration.
6. Wait for either a PASSED or FAILED result to be shown.
 - a. If PASSED is shown, the calibration was successful, and the calibration due date will be updated for that sensor. Remove the calibration gas. Note that two passed messages must be shown for this calibration.
 - b. If FAILED is shown, leave the calibration gas attached and attempt calibration again. If successful calibration cannot be achieved, remove the instrument from service and contact the factory for assistance.
7. The display will advance to the next calibration option. See the next section if you need to calibrate other sensors.

MANUAL CALIBRATION: CARBON MONOXIDE (CO) 100 PPM

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CALIBRATION is shown.
3. Press and release the **B** button to enter the CALIBRATION menu.
4. Press and release the **C** button until ATTACH CO 100 PPM is shown.
5. Attach 100 PPM CO calibration gas to the quick connect fitting and then press and release the **B** button to start the calibration.
6. Wait for either a PASSED or FAILED result to be shown.
 - a. If PASSED is shown, the calibration was successful, and the calibration due date will be updated for that sensor. Remove the calibration gas.
 - b. If FAILED is shown, leave the calibration gas attached and attempt calibration again. If successful calibration cannot be achieved, remove the instrument from service and contact the factory for assistance.
7. The display will advance to the next calibration option. See the next section if you need to calibrate other sensors.

MANUAL CALIBRATION: HYDROGEN CYANIDE (HCN) 10 PPM

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CALIBRATION is shown.
3. Press and release the **B** button to enter the CALIBRATION menu.
4. Press and release the **C** button until ATTACH HCN 10 PPM is shown.
5. Attach 10 PPM HCN calibration gas to the quick connect fitting and then press and release the **B** button to start the calibration.
6. Wait for either a PASSED or FAILED result to be shown.
 - a. If PASSED is shown, the calibration was successful, and the calibration due date will be updated for that sensor. Remove the calibration gas.
 - b. If FAILED is shown, leave the calibration gas attached and attempt calibration again. If successful calibration cannot be achieved, remove the instrument from service and contact the factory for assistance.
7. The display will advance to the next calibration option. See the next section if you need to calibrate other sensors.

MANUAL CALIBRATION: HYDROGEN SULFIDE (H2S) 25 PPM

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.

2. Press and release the **C** button until CALIBRATION is shown.
3. Press and release the **B** button to enter the CALIBRATION menu.
4. Press and release the **C** button until ATTACH H2S 25 PPM is shown.
5. Attach 25 PPM H2S calibration gas to the quick connect fitting and then press and release the **B** button to start the calibration.
6. Wait for either a PASSED or FAILED result to be shown.
 - a. If PASSED is shown, the calibration was successful, and the calibration due date will be updated for that sensor. Remove the calibration gas.
 - b. If FAILED is shown, leave the calibration gas attached and attempt calibration again. If successful calibration cannot be achieved, remove the instrument from service and contact the factory for assistance.
7. The display will advance to the next calibration option. See the next section if you need to calibrate other sensors.

MANUAL CALIBRATION: METHANE TC 100 %VOL

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CALIBRATION is shown.
3. Press and release the **B** button to enter the CALIBRATION menu.
4. Press and release the **C** button until ATTACH METHANE TC 100 VOL is shown.
5. Attach 100%VOL methane calibration gas to the quick connect fitting and then press and release the **B** button to start the calibration.
6. Wait for either a PASSED or FAILED result to be shown.
 - a. If PASSED is shown, the calibration was successful, and the calibration due date will be updated for that sensor. Remove the calibration gas.
 - b. If FAILED is shown, leave the calibration gas attached and attempt calibration again. If successful calibration cannot be achieved, remove the instrument from service and contact the factory for assistance.
7. The display will advance to results screen after the 100% methane calibration. If you have done multiple calibrations without leaving the calibration menu, the results for all will be shown.
8. Press and release the **A** button once to return to the USER MENU, or twice to return to the work display.

QUICK MENU TEST MODES

Depending on what type work the **SENSIT® TRAK-IT 4** is being used for, there are a variety of test modes available that are designed to be used for specific tasks. For example, using BARHOLE mode for below-grade leak investigation.

To access these test modes, enter the Quick Menu from the work display by pressing and releasing the **B** button. QUICK MENU will appear near the top of the display. You can scroll through this menu by pressing and releasing the **C** button, and selecting the mode currently shown on screen by pressing and releasing the **B** button. To exit back to the work display, press and release the **A** button. See the following sections for information about these test modes.

TICK

STANDARD FEATURE

PURPOSE: Assist in pinpointing small combustible gas leaks

TICK mode is a default feature in the **SENSIT® TRAK-IT 4**, available on all models. It gives the operator a ticking, audible tone that gets faster as the gas concentration increases. This assists in pinpointing small combustible gas leaks by allowing the operator to rely on the tone and not have to watch the display of the instrument. It detects very small changes in gas concentration, which lets the operator very accurately and repeatably pinpoint the source of the leak.

The tick can be very gradually adjusted with the thumbwheel on the front of the instrument handle or can be instantly reset to a “baseline” tick rate by using the **B** button. This gives the operator more control as the leak is searched for, small changes can be made to narrow down the source.

TO USE TICK:

1. From the work display, press and release the **B** button to enter the QUICK MENU.
2. The first option in the menu is TICK. Press and release the **B** button again to enable it. Upon activation, an audible tick can be heard, and a bar graph is displayed. The bar graph is a visual speed representation of the tick rate (empty bar = no tick, full bar = max tick).
3. To pinpoint a leak, move the sensor head toward the area suspected of leakage. As the sensor moves closer to a leak source, the tick rate will increase. When the tick becomes a steady tone, either rotate the thumbwheel back towards you to decrease the rate or press and release the **B** button to reset the rate to the baseline level. Then, a higher concentration of gas can be searched for using the same procedure. When this process no longer finds a higher concentration, the source of the leak has been pinpointed.

If the tick slows down or goes away, you have moved away from the leak or there is no more gas present. For best results, always use the instrument prior to using any liquid leak detection fluids as the sensor may respond to them.

BAR HOLE TEST

STANDARD FEATURE

REQUIRES: TC sensor (%VOL sensor) equipped

PURPOSE: Below grade leak investigation

BAR HOLE MODE is a default feature in the **SENSIT® TRAK-IT 4** when equipped with the TC sensor (%VOL sensor). It is intended for use when conducting a below grade leak investigation, generally in a hole bored in the ground with a plunger bar or drill. It gives the operator a separate screen from the work display that shows only the combustible gas reading in the %VOL scale (both real time and peak reading).

Bar hole mode is a timed test (20sec. by default), which helps to ensure consistent results are achieved if multiple tests are done, whether to grade a leak or map leak migration. The BAR HOLE test utilizes the high-speed mode of the pump, allowing you to complete each test much faster than in previous generation instruments.

Each BAR HOLE test is logged in its own log, with results, date and time, and GPS coordinates (if installed), that can be retrieved wirelessly from the **SENSIT® TRAK-IT 4** with Smart-Link 360 Software.

TO CONDUCT A BAR HOLE:

1. If you are sampling below grade in a hole, a bar hole probe is required for use while in this mode. Attach the bar hole probe to the quick connect fitting and perform a flow block check by blocking the inlet(s) of the probe. Within 10 seconds, FLOW BLOCKED should be shown on the display.

TIP: a latex glove works well to cover the holes and the end of the probe for this test.

NOTE: This ensures all seals are intact and there are no air leaks in the probe or instrument, which is critical for accurate readings. If flow block is not detected, check the integrity of the O-ring seals and connections on the probe and instrument. If flow block cannot be achieved, contact the factory for assistance.

2. From the work display, press and release the **B** button to enter the QUICK MENU.
3. Press and release the **C** button until BARHOLE TEST is shown.
4. Press and release the **B** button to enter BARHOLE TEST mode. A message will be displayed reminding you to attach hardware if needed.
5. To begin a BAR HOLE test, insert the probe into the location for the survey and then press and release the **B** button. A 20 second countdown for the test will begin. The current percent of gas by volume detected will be displayed on the left side of the display. The peak percent of gas by volume detected will be displayed on the right side of the display. When the test ends, the pump will shut off and any sustained and peak readings will be shown and recorded.

NOTE: In extreme temperatures or with a weak battery, the **SENSIT® TRAK-IT 4** may not be able to run the pump in high-speed. In that case, low-speed will be used, and the test duration will be 45 seconds.

6. If you have another test to take, remove the probe from the test location. Press and release the **C** button to purge the gas out of the instrument if the real time reading on the left side of the screen is higher than the purge threshold. The purge process will start and continue until the desired setpoint is reached. This is set to 0.0%VOL by default and adjustable in the User Menu. When the purge stops, insert the probe into the next location and press and

release the **B** button to start another test.

7. To exit BAR HOLE mode, press and release the **A** button once to return to the quick menu, or twice to return to the work display.

CO TEST

OPTIONAL FEATURE

REQUIRES: Carbon monoxide (CO) sensor equipped

CO TEST in the **SENSIT® TRAK-IT 4** is an optional feature when equipped with a carbon monoxide (CO) sensor. It is a timed test (180sec. by default) that shows the operator only the real time and peak CO readings on a separate screen from the work display.

Each CO TEST is logged in its own log, with results, date and time, and GPS coordinates (if installed), that can be retrieved wirelessly from the **SENSIT® TRAK-IT 4** with Smart-Link 360 Software.

TO CONDUCT A CO TEST:

1. If you are using the CO TEST to analyze flue gas, a hot air probe must be used. Attach the probe to the quick connect fitting and perform a flow block check by blocking the inlet(s) of the probe. Within 10 seconds, FLOW BLOCKED should be shown on the display.

NOTE: This ensures all seals are intact and there are no air leaks in the probe or instrument, which is critical for accurate readings. If flow block is not detected, check the integrity of the O-ring seals and connections on the probe and instrument. If flow block cannot be achieved, contact the factory for assistance.

2. From the work display, press and release the **B** button to enter the QUICK MENU.
3. Press and release the **C** button until CO TEST is shown.
4. Press and release the **B** button to enter the CO TEST. A message will be displayed reminding you to attach hardware if needed.
5. Follow federal, state, municipal, and/or company procedures to conduct the CO TEST. Insert the hot air probe into the sampling point and press and release the **B** button to start the test. The countdown timer will begin (180 sec by default). The real time CO reading will be shown in the middle of the display and the peak CO reading will be shown on the right side of the display. The test is over when the timer reaches 0. The results will remain on the display and a log of the test will be saved with the test results.
6. If you have another test to take, remove the probe from the test location and press and release the **C** button to purge the gas out of the instrument if the real time reading in the middle of the display is above the purge threshold. The purge process will start and continue until the desired setpoint is reached. This is set to 0ppm by default and adjustable in the User Menu. When the purge stops, insert the probe into the next location and press and release the **B** button to start another test.
7. To exit CO TEST, press and release the **A** button once to return to the QUICK MENU, and twice to return to the work display.

PURGE TEST

STANDARD FEATURE

REQUIRES: TC sensor (%VOL sensor) equipped

PURPOSE: Purging lines into service with fuel

PURGE TEST is a default feature in the **SENSIT® TRAK-IT 4** when equipped with the TC sensor (%VOL sensor). It is intended for use when purging lines into service with fuel (e.g. natural gas, propane).. It gives the operator a separate screen from the work display that shows only the combustible gas reading in the %VOL scale, as well as the oxygen (O2) reading, if equipped.

It is NOT intended for use when purging lines out of service. For purging lines out of service with air, use the normal work display. For purging lines out of service with an inert gas (e.g. nitrogen), use Inert Mode.

The %LEL sensor is turned off while this mode is active to prevent unnecessary exposure to high level of gas for longevity of the sensor.

TO CONDUCT A PURGE:

1. A purge probe is required for use while in this mode to prevent over-pressurization and damage to the instrument. Attach the purge or flange purge probe to the quick connect fitting and perform a flow block check by blocking the inlet(s) of the probe. Within 10 seconds, FLOW BLOCKED should be shown on the display.

TIP: a latex glove works well to cover the holes and the end of the probe for this test.

NOTE: This ensures all seals are intact and there are no air leaks in the probe or instrument, which is critical for accurate readings. If flow block is not detected, check the integrity of the O-ring seals and connections on the probe and instrument. If flow block cannot be achieved, contact the factory for assistance.

2. From the work display, press and release the **B** button to enter the QUICK MENU.
3. Press and release the **C** button until PURGE TEST is shown.
4. Press and release the **B** button to enter PURGE TEST mode. A message will be displayed reminding you to attach hardware if needed.
5. Press and release the **B** button to start the purge. Gas and oxygen readings will be shown on screen in the %VOL scale. If an oxygen (O2) sensor is not installed, an "X" will be shown for that reading. Insert the probe for sampling, ensuring NOT to create a tight seal around the end of the probe. Allow for blow-by so the unit does not over-pressurize.
6. Conduct the purge following federal, state, municipal, and/or company procedures.
7. To exit the PURGE TEST to the work display, press and release the **A** button. A PLEASE WAIT message will flash on the display, while the LEL sensor is being powered back on, for a minimum of 5 seconds, up to a maximum of 5 minutes.

LEAK SEARCH MODE

OPTIONAL FEATURE

PURPOSE: Combustible gas leak investigations and surveys, where the PPM scale is needed with a low PPM alarm.

LEAK SEARCH mode is an optional feature in the **SENSIT® TRAK-IT 4** intended for use in combustible gas leak investigations or surveys that require the PPM scale. It gives the operator a separate screen from the normal work display that shows only the combustible gas reading. This reading starts in the PPM scale, which allows for a higher resolution to be shown on-screen than would normally be available. The instrument will read in 1ppm increments up to 5000ppm, auto range to %LEL and/or then to %VOL.

The instrument has a preset alarm of 50ppm while in leak search mode (factory adjustable). This is an additional and separate alarm from the standard set of alarms available on the work display. LEAK SEARCH mode utilizes the high-speed mode of the pump, allowing you to work faster than in previous generation instruments.

NOTE: In extreme temperatures or with a weak battery, the **SENSIT® TRAK-IT 4** may not be able to run the pump in high-speed. In that case, low-speed will be used.

TO CONDUCT A LEAK SEARCH:

1. Attach a drag tube assembly or telescoping survey probe and perform a flow block check by blocking the inlet(s) of the probe. Within 10 seconds, FLOW BLOCKED should be shown on the display.

NOTE: This ensures all seals are intact and there are no air leaks in the probe or instrument, which is critical for accurate readings. If flow block is not detected, check the integrity of the O-ring seals and connections on the probe and instrument. If flow block cannot be achieved, contact the factory for assistance.

2. From the work display, press and release the **B** button to enter the QUICK MENU.
3. Press and release the **C** button until LEAK SEARCH is shown.
4. Press and release the **B** button to enter LEAK SEARCH mode. LEAK SEARCH will be displayed near the top of the screen with the gas reading below it. A low-level PPM reading may be shown because the instrument has not been zeroed to the working environment yet.
5. Conduct the investigation or survey following federal, state, municipal, and/or company procedures. To perform an autozero while in LEAK SEARCH mode, press and hold the **C** button until AUTOZERO is displayed. TIP: Due to the sensitivity of the device in this mode, an environmental zero may be required. To perform this function, place the drag tube or telescopic probe on the same surface in which the survey will be completed away from the suspected leak area. Let the instrument stabilize for 15 to 30 seconds and then with the probe/drag tube in place, press and hold the **C** button until autozero appears. Once zeroed, you can proceed with the investigation. Any alarm can be muted by pressing and releasing the **A** button once. If the alarm sound is muted during an alarm condition and the concentration of gas is below the alarm threshold, the alarm will activate if the concentration exceeds the alarm threshold again or the LEL alarm is reached.
6. To exit LEAK SEARCH mode to the work display, press and hold the **A** button for 1-2 seconds and release.

STANDBY MODE

OPTIONAL FEATURE

PURPOSE: This puts the instrument in a low-power mode, for when you need to use it again soon and do not want to fully power it off and back on again.

The **SENSIT® TRAK-IT 4** has an optional “standby” mode that allows the operator to put the instrument in a low power state. This can be used if you don’t need to use the instrument for a short amount of time and want to save some battery life and time, instead of fully powering the instrument off and back on again. It is not recommended to leave the instrument in STANDBY MODE for more than 2 hours.

TO ENABLE STANDBY MODE:

1. From the work display, press and release the **B** button. QUICK MENU will appear near the top of the display.
2. Press and release the **C** button until STANDBY is shown.
3. Press and release the **B** button to activate STANDBY MODE. The gas readings will be removed and “STANDBY” will be shown on screen. While standby mode is active, the pump and the LEL sensor will be powered off.
4. To resume normal operation and exit STANDBY MODE, press and release the **A** button. A brief warmup will be shown to ensure sensors are operational before returning to the work display.

PEAK MODE

OPTIONAL FEATURE

PURPOSE: Storing peak readings on the display for situations where the screen cannot be observed. Peak mode in the **SENSIT® TRAK-IT 4** is an optional feature that is used to maintain peak readings on the work display (in addition to the real-time readings) for each sensor installed. The most common use case for this is when the instrument is being used in a situation where the display cannot be immediately observed, such as monitoring over-head or confined space areas, where the instrument is being raised or lowered away from the operator. The peak reading for each sensor remains on the screen until cleared so that no readings are missed.

TO ENABLE PEAK MODE:

1. From the work display, press and release the **B** button. QUICK MENU will appear near the top of the display.
2. Press and release the **C** button until PEAK MODE is shown.
3. Press and release the **B** button to enter PEAK MODE. The work display will be shown with an additional peak reading in brackets below each real-time reading.
4. Conduct the investigation or survey following federal, state, municipal, and/or company procedures. The highest measured value for each gas will be shown in brackets under each live reading.

NOTE: In the case of Oxygen, the lowest reading will be shown as the peak. In the case of combustible gas, the scale will be shown in addition to the measured value. PPM, LEL, or VOL will be shown depending on instrument configuration and gas concentration measured.

5. To reset the peak readings, press and hold the **C** button until AUTOZERO is displayed (**NOTE:**

this should be done in a gas free environment).

6. To exit the PEAK MODE, press and hold the **A** button for 1-2 seconds. The peak readings will be removed, and the standard work display will be shown.

INERT MODE

OPTIONAL FEATURE

REQUIRES: Oxygen (O₂) sensor equipped, dilution tube assembly

PURPOSE: Purging lines OUT of service with inert gas.

INERT MODE in the **SENSIT® TRAK-IT 4** is an optional feature that requires the instrument to be equipped with an Oxygen (O₂) sensor. It is intended for use when purging lines out of service with an inert gas only and requires the inert dilution tube assembly. It gives the operator a separate screen from the work display that shows only the combustible gas reading and the oxygen (O₂) reading.

It is NOT intended for use when purging lines into service or when purging lines out of service with compressed air. For purging lines into service, use PURGE TEST, and for purging lines out of service with air, use the normal work display WITHOUT the dilution tube assembly.

TO CONDUCT AN INERT PURGE:

1. A purge probe is recommended for use while in this mode to prevent over-pressurization and damage to the instrument. Attach the purge or flange purge probe to the quick connect fitting and perform a flow block check by blocking the inlet(s) of the probe. Within 10 seconds, FLOW BLOCKED should be shown on the display.

TIP: a latex glove works well to cover the holes and the end of the probe for this test.

NOTE: This ensures all seals are intact and there are no air leaks in the probe or instrument, which is critical for accurate readings. If flow block is not detected, check the integrity of the O-ring seals and connections on the probe and instrument. If flow block cannot be achieved, contact the factory for assistance.

2. From the work display, press and release the **B** button to enter the QUICK MENU.
3. Press and release the **C** button until INERT MODE is shown.
4. Press and release the **B** button to enter INERT MODE. A message will be displayed reminding you to attach hardware if needed.

NOTE: If the purge probe cannot be used because of application restrictions, the tubing with the dilution tube assembly (no purge probe) can be used for sampling. The tubing must be vinyl and the flow must be restricted to 0.3 lpm – 0.5 lpm (liters per minute) at the point of sampling. If the point of sampling is not correctly restricted, it risks damaging the instrument, and the dilution tube will not be able to be adjusted properly to allow the correct level of oxygen.

5. Press and release the **B** button to start the inert purge. The display will show a percent LEL reading (by default) for the combustible gas type selected and a percent volume reading for oxygen.
6. Insert the purge probe into the gas stream and allow the sample to be drawn for a minimum of 1 minute.
7. Adjust the needle valve counterclockwise to induce oxygen and clockwise to restrict oxygen. Mix between 8.0% and 9.0%VOL of oxygen with the sample being drawn from the pipe.

8. Following federal, state, municipal, and/or company procedures, purge the line until the desired gas reading is displayed. Be sure to maintain between 8.0% and 9.0%VOL O₂.
9. To exit INERT MODE, press and release the **A** button once to return to the Quick Menu, and twice to return to the normal work display.

USER MENU

The **SENSIT® TRAK-IT 4** has a user-accessible menu that is used for user-level tasks such as changing the combustible gas type, performing a manual calibration, viewing logs, etc. There is a detailed section for each in the following pages, as well as any applicable instructions for using these options. Any options that are not available by default are listed as such (for example, a log for a non-default test mode).

Other non-user adjustable settings are in the password protected Expert Menu.

To access the USER MENU from the work display, press and hold the **B** button until the clicking stops and USER MENU is shown near the top of the display. While in this menu, the buttons have the following functions:

- the **A** button will exit to the work display
- the **B** button will select the currently shown option
- the **C** button will scroll through each menu option

SET TIME

STANDARD FEATURE

The SET TIME option allows the user to adjust the clock time saved in the **SENSIT® TRAK-IT 4**'s internal memory. The internal RTC (real time clock) normally keeps this time very accurate, but it may need to be adjusted occasionally over a long period of time. Additionally, there are two ways in which the instrument time can be automatically updated so that this adjustment is never needed:

1. **SENSIT® TRAK-IT 4** instruments with GPS installed have the option to have the clock time be automatically updated via GPS signal (time is received along with location information). The GPS CLOCK MODE setting in the Expert Menu controls this.
2. When a **SENSIT® TRAK-IT 4** communicates with a SMART-CAL 360 calibration station (e.g. for calibration or bump testing), the internal clock is automatically updated and synchronized with the station clock. This is not optional and happens with every communication, to avoid issues with instruments in the same fleet having mismatched clocks and inaccurate calibration/bump records.

TO VIEW OR ADJUST TIME:

1. To access the SET TIME menu from the work display, press and hold the **B** button until USER MENU is shown near the top of the display. The first option in the User Menu, SET TIME, will be shown. The currently saved instrument time will be displayed while viewing this menu option. If an adjustment needs to be made, follow the instruction below.
2. If the hour position needs to be adjusted:
 - a. Press and release the **B** button to select the SET TIME menu. The hour position will be flashing.
 - b. Press and release the **B** button to select, and then use the **B** and **C** buttons to adjust

the number down or up.

- c. When correct, press and release the **A** button to return to the User Menu. The setting will no longer be flashing.
3. If the minute position needs to be adjusted:
 - a. Press and release the **B** button to select the SET TIME menu, and then press and release the **C** button. The minute position will be flashing.
 - b. Press and release the **B** button to select, and then use the **B** and **C** buttons to adjust the number down or up.
 - c. When correct, press and release the **A** button to return to the User Menu. The setting will no longer be flashing.
4. When the time is correct, press and release the **A** button to return to the work display.

SET DATE

STANDARD FEATURE

The SET DATE option allows the user to adjust the clock date saved in the **SENSIT® TRAK-IT 4's** internal memory. The internal RTC (real time clock) normally keeps this date very accurate, but it may need to be adjusted occasionally over a long period of time. Additionally, there are two ways in which the clock date can be automatically updated so that this adjustment is never needed:

1. **SENSIT® TRAK-IT 4** instruments with GPS installed have the option to have the clock date be automatically updated via GPS signal (date is received along with location information). The GPS CLOCK MODE setting in the Expert Menu controls this.
2. When a **SENSIT® TRAK-IT 4** communicates with a SMART-CAL 360 calibration station (e.g. for calibration or bump testing), the internal clock is automatically updated and synchronized with the station clock. This is not optional and happens with every communication, to avoid issues with instruments in the same fleet having mismatched clocks.

TO VIEW OR ADJUST DATE:

1. To access the SET DATE menu from the work display, press and hold the **B** button until the clicking stops and USER MENU is shown near the top of the display.
2. Press and release the **C** button until SET DATE is shown. The currently saved instrument date will be displayed while viewing this menu option. If an adjustment needs to be made, follow the instruction below.
3. Press and release the **B** button to select the SET DATE menu. The MONTH option will be shown.
4. Pressing and releasing the **C** button will scroll through DAY, MONTH, and YEAR. To make an adjustment to one of these, press and release the **B** button. The setting will be flashing.
5. Use the **B** and **C** buttons to adjust the number down or up.
6. When correct, press and release the **A** button to return to the SET DATE menu. If another adjustment is needed, repeat steps 4 & 5.
7. When the date is correct, press and release the **A** button to return to the User Menu. Press and release the **A** button again to return to the work display.

TIME ZONE

STANDARD FEATURE

The TIME ZONE option allows the user to adjust the clock time zone saved in the **SENSIT® TRAK-IT 4**'s internal memory. The time zone is an offset from GMT/UTC+0. This may only need to be set once, and is typically done during instrument setup, but may be adjusted if:

- an instrument moves to a new location in another time zone, or
- an instrument is used in an area that observes daylight savings.

If you are located in the U.S., you can find your UTC time zone by visiting <https://www.time.gov/>.

TO VIEW OR ADJUST TIME ZONE:

1. To enter the User Menu from the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button to scroll through the menu until TIME ZONE is shown. The current instrument time zone will be displayed while viewing this menu option. Follow the next steps to adjust the time zone.
3. Press and release the **B** button to select the TIME ZONE menu. The HOURS option will be shown.
4. Pressing and releasing the **C** button will scroll between HOURS and MINUTES. To make an adjustment to one of these, press and release the **B** button. The setting will be flashing.

NOTE: Domestically in the U.S., we do not use the "minutes" category, so you can leave that set to "0".

5. Use the **B** and **C** buttons to adjust the number down or up. The MINUTES setting is adjusted in 15-minute increments.
6. When correct, press and release the **A** button to return to the TIME ZONE menu. If another adjustment is needed, repeat steps 4 & 5.
7. When the date is correct, press and release the **A** button to return to the User Menu. Press and release the **A** button again to return to the work display.

GPS

OPTIONAL FEATURE

The **SENSIT® TRAK-IT 4** has the option to have a GPS module installed, to add location information to the data logging system. If this is installed and enabled, an icon will be shown on the work display and in various other screens and modes, showing the user the status of GPS:

- A "reverse contrast" GPS symbol, meaning light colored text surrounded by a dark box, means that the **SENSIT® TRAK-IT 4** currently does not have a GPS signal.
- A normal contrast GPS symbol, meaning dark colored text with no surrounding box, means that the **SENSIT® TRAK-IT 4** currently does have a valid GPS signal.

The user can rely on this symbol to accurately know if a valid GPS signal has been acquired. If more information is needed (such as viewing the actual coordinates), follow the instructions below.

TO VIEW GPS INFORMATION:

1. To access the GPS menu from the work display, press and hold the **B** button until the clicking stops and USER MENU is shown near the top of the display.
2. Press and release the **C** button until GPS is shown. If a GPS signal has been acquired, various information will be shown, including the current latitude and longitude coordinates, the number of satellites acquired, and the current quality of the signal (e.g. "excellent").
3. Press and release the **A** button to return to the work display.

BUMP TEST

STANDARD FEATURE

The BUMP TEST feature is a semi-automated response test for all sensors installed in the **SENSIT® TRAK-IT 4**, using calibration gas. This can be done simply by applying gas to the instrument while on the work display, but using the BUMP TEST feature ensures the test is consistently timed and gives the operator a clear pass or fail message for each sensor. The **SENSIT® TRAK-IT 4** requires the response for each sensor be at least 80% of the calibration gas value within a specified time for a successful bump test.

THE GAS CONCENTRATIONS NEEDED FOR EACH SENSOR ARE:

Combustible (EX) LEL sensor: 2.5%VOL methane (CH₄), air balance

Carbon Monoxide (CO) sensor: 100ppm CO, air balance

Oxygen (O₂) sensor: N/A (Not part of the bump test process. To test the O₂ sensor response, see the O₂ TEST section.)

Hydrogen Sulfide (H₂S) sensor: 25ppm H₂S, air balance

Hydrogen Cyanide (HCN) sensor: 10ppm HCN, nitrogen balance

TO PERFORM A BUMP TEST:

1. Power on the **SENSIT® TRAK-IT 4** and allow it to warmup and arrive at the work display.
2. Prepare the calibration/bump gas necessary based on the sensor configuration of your instrument and the list above.
3. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
4. Press and release the **C** button until BUMP TEST is shown.
5. Press and release the **B** button to select and enter the BUMP TEST menu. The applicable sensor to be tested will be shown with the appropriate concentration of gas to attach, and a countdown timer will begin.
6. Attach the gas shown on-screen. A passed or failed message will be shown after the test is complete, and the next gas will be shown.

NOTE: If the timer shown on-screen expires before the test passes, a fail message will be shown. Double-check there are no issues with the gas supply and re-calibrate any sensor that cannot successfully pass a bump test.

7. Repeat step 6 for all sensors, until the results screen is shown.
8. Press and release the **A** button once to return to the user menu, or twice to return to the work display.

CALIBRATION

STANDARD FEATURE

For information and instructions on calibrating your **SENSIT® TRAK-IT 4**, by any method, see the separate CALIBRATION section in this manual.

CAL LOG

STANDARD FEATURE

The **SENSIT® TRAK-IT 4** stores every calibration in a log on the internal memory of the instrument. Both successful and unsuccessful attempts are recorded. When the log memory is full, the oldest record will be overwritten. In the User Menu, there is a calibration log that shows the user date of the last successful calibration for each sensor.

For a complete view of all calibration data stored on the instrument, the user of Smart-Link 360 software is required.

TO VIEW THE CALIBRATION LOG:

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CAL LOG is shown. You do not need to select or enter to view the log, it is shown directly from the User Menu.
3. Press and release the **A** button once to return to the work display.

O2 TEST

STANDARD FEATURE, WHEN EQUIPPED WITH OXYGEN (O2) SENSOR

The O2 Test is a function test of the oxygen (O2) sensor, to ensure it is depleting properly when a gas without oxygen is applied. Since the O2 IS self-calibrating during Autozero and does not have a separate calibration procedure like other sensors do, this test is provided so that proper operation can be verified. This test is done automatically when manually calibrating with the "Autocal" option, or when calibrating using the SMART-CAL 360, but otherwise is left up to the user's discretion on when to perform the test manually.

TO PERFORM A MANUAL O2 TEST:

1. Prepare the necessary calibration or bump test gas (e.g. 100%VOL methane, 100%VOL propane, or 100%VOL nitrogen).
2. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
3. Press and release the **C** button until O2 TEST is shown.
4. Press and release the **B** button to start the test and immediately apply the prepared gas to the instrument. O2 reading will be shown and a 20 second countdown timer will begin. If the sensor shows proper depletion within this period, PASSED will be shown on the display. If the sensor does not respond properly, FAILED will be shown.

If the O2 Test fails, attempt the test again. If the O2 test still does not pass, remove the instrument from service and contact the factory for assistance.

5. Press and release the **A** button once to return to the User Menu, or twice to return to the work display.

LED BRIGHTNESS

STANDARD FEATURE

The **SENSIT® TRAK-IT 4** allows the user to adjust the brightness level of the LED indicator. This is done in the User Menu and provides brightness level options from 30 (default) to 100.

TO ADJUST THE LED BRIGHTNESS:

1. Press and hold the **B** button from the work display until USER MENU is shown near the top of the display.
2. Press and release the **C** button until LED BRIGHTNESS is shown. The currently selected option will be displayed.
3. Press and Release B (move down) or C (move up) to scroll and adjust the brightness level as desired: between 30 to 100.
4. When the desired brightness level is selected, press and release the **A** button to return to the work display.

BAR HOLE LOG

OPTIONAL FEATURE

Any time a BAR HOLE test is performed using the **SENSIT® TRAK-IT 4**, a log of that test is automatically saved in the internal memory of the instrument. When the log memory is full, the oldest record will be overwritten.

For information on how to perform a BAR HOLE TEST, see that section in this manual.

The bar hole log can be viewed in the User Menu. To view the log more easily and obtain a permanent digital record of them, use Smart-Link 360 software.

TO VIEW THE BAR HOLE LOG:

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until BAR HOLE LOG is shown. If you do not see this option in the user menu, it may be disabled per the factory configuration of your instrument. Contact **SENSIT Technologies** for assistance.
3. Press and release the **B** button to select and enter the BAR HOLE LOG menu.

The most recent record will be displayed. The top of the screen will list "Record ___" with the record number. Each record contains the date/time of the BAR HOLE test and sensor outputs at that time. GPS information will also be shown, if installed and enabled.

4. To go to the previous record, press and release the **C** button. To go the next record, press and release the **B** button.
5. Press and release the **A** button once to return to the User Menu, or twice to return to the work display.

CO LOG

OPTIONAL FEATURE

Any time a CO TEST is performed using the **SENSIT® TRAK-IT 4**, a log of that test is automatically saved in the internal memory of the instrument. When the log memory is full, the oldest record will be overwritten.

For information on how to perform a CO TEST, see that section in this manual.

The CO test log can be viewed in the User Menu. To view the log more easily, and obtain a permanent digital record of them, use Smart-Link 360 software.

TO VIEW THE CO LOG:

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CO LOG is shown. If you do not see this option in the user menu, it may be disabled per the factory configuration of your instrument. Contact **SENSIT Technologies** for assistance.
3. Press and release the **B** button to select and enter the CO LOG menu.

The most recent record will be displayed. The top of the screen will list "Record __" with the record number. Each record contains the date/time of the CO Test and sensor outputs at that time. GPS information will also be shown, if installed and enabled.

4. To go to the previous record, press and release the **C** button. To go the next record, press and release the **B** button.
5. Press and release the **A** button once to return to the User Menu, or twice to return to the work display.

SMART-LINK

SMART-LINK 360 SOFTWARE SOLD SEPARATELY

The **SENSIT® TRAK-IT 4** is compatible with SMART-LINK 360 software. This software package allows the user to download the logs out of the **SENSIT® TRAK-IT 4** via a Bluetooth connection.

This section shows how to enable SMART-LINK mode on the **SENSIT® TRAK-IT 4**. For further information and instructions on Smart-Link 360 software, consult the help menu within the software or contact **SENSIT Technologies**.

TO ENABLE SMART-LINK MODE:

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until SMART LINK is shown.
3. Press and release the **B** button. SMART CAL ENABLED will be displayed. The instrument is now ready for communication.

NOTE: You may see a brief "wait" message while Smart-Link mode is being enabled. Within a couple seconds, you should see the "enabled" message.

4. When you are done using Smart-Link mode, press and release the **A** button to return to the work display.

CALIBRATION NEXT DUE

STANDARD FEATURE

The CALIBRATION NEXT DUE menu displays the next due date for calibration for all sensor installed in the **SENSIT® TRAK-IT 4**. This screen is displayed during startup. Both the next due date and the days remaining until that date will be displayed for each sensor.

TO VIEW THE NEXT DUE DATE(S):

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CALIBRATION NEXT DUE is shown near the top of the display. The next due date and days remaining until that date will be shown for each installed sensor.
3. Press and release the **A** button to return to the work display.

BARHOLE PURGE THRESHOLD

STANDARD FEATURE

After a BAR HOLE TEST is performed using the **SENSIT® TRAK-IT 4**, a built-in purge option lets the user automatically purge the instrument of gas before another test is done. By default, this purge requires that the real time reading on-screen reaches 0.0%VOL to be successful before another BAR HOLE TEST can be performed.

At the operator's option, this threshold can be raised from 0.0%, up to a maximum of 9.0%, if it is deemed that it isn't necessary to completely purge the instrument between tests.

TO ADJUST THE BAR HOLE PURGE THRESHOLD:

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until BAR HOLE PURGE THRESHOLD is shown.
3. Press and release the **B** button to select and enter the BAR HOLE PURGE THRESHOLD menu. The currently saved setting will be displayed (0.0% by default).
4. To increase the setting, press and release the **C** button. To decrease the setting, press and release the **B** button.
5. Once the setting is at the desired number, press and release the **A** button once to return to the USER MENU or twice to return to the work display.

CO PURGE THRESHOLD

OPTIONAL FEATURE

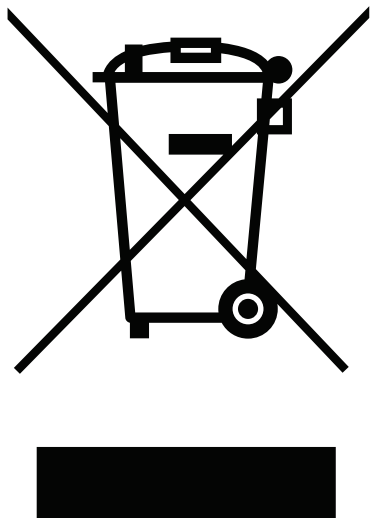
After a CO TEST is performed using the **SENSIT® TRAK-IT 4**, a built-in purge option lets the user automatically purge the instrument of gas before another test is performed. By default, this purge requires that the real time reading on-screen reaches 0 PPM to be successful, before another CO TEST can be done.

At the operator's option, this threshold can be raised from 0, up to a maximum of 10PPM, if it is deemed that it isn't necessary to completely purge the instrument.

TO ADJUST THE CO PURGE THRESHOLD:

1. From the work display, press and hold the **B** button until USER MENU is shown near the top of the display.
2. Press and release the **C** button until CO PURGE THRESHOLD is shown.
3. Press and release the **B** button to select and enter the CO PURGE THRESHOLD menu. The currently saved setting will be displayed (0 PPM by default).
4. To increase the setting, press and release the **C** button. To decrease the setting, press and release the **B** button.
5. Once the setting is at the desired number, press and release the **A** button once to return to the USER MENU or twice to return to the work display.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.



In August of 2005, the European Union (EU) implemented the EU WEEE Directive 2002/96/EC and later the WEEE Recast Directive 2012/19/EU requiring Producers of electronic and electrical equipment (EEE) to manage and finance the collection, reuse, recycling and to appropriately treat WEEE that the Producer places on the EU market after August 13, 2005. The goal of this directive is to minimize the volume of electrical and electronic waste disposal and to encourage re-use and recycling at the end of life.

Sensit Technologies LLC has met its national obligations to the EU WEEE Directive. Sensit Technologies LLC has also elected to join WEEE Compliance Schemes in some countries to help manage customer returns at end-of-life. If you have purchased Sensit Technologies LLC branded electrical or electronic products in the EU and are intending to discard these products at the end of their useful life, please do not dispose of them with your other household or municipal waste. Sensit Technologies LLC has labeled its branded electronic products with the WEEE Symbol (figure above) to alert our customers that products bearing this label should not be disposed of in a landfill or with municipal or household waste in the EU.

WARRANTY

Your **SENSIT® TRAK-IT 4** is warranted to be free from defects in materials and workmanship for a period of two years after purchase (excluding calibration and batteries). The circuit board and percent gas sensor (TC) are warranted for 5 years. If within the warranty period, your instrument should become inoperative from such defects, the unit will be repaired or replaced at our option.

This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect, or improper maintenance. Proof of purchase may be required before warranty is rendered. Units out of warranty will be repaired for a service charge. Internal repair or maintenance must be completed by a **SENSIT Technologies** authorized technician. Violation will void warranty. Units must be returned postpaid, insured and to the attention of the Service Dept. for warranty or repair.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

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MADE IN THE USA
WITH GLOBALLY SOURCED COMPONENTS

SENSIT

SENSIT® TRAK-IT 4 **Instruction Manual (English)**
Part Number: 750-00103
Revision: 1/28/2026