

## **AIR FLOW CALIBRATORS**

#### **Operation Manual** (This Manual Covers All Go-Cal Pro Kit Models)

Sensidyne Document No. 360-0266-01 - Rev B



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#### Page I

#### **Firmware Version**



#### **Firmware Version 1.0.1 or Later**



**Quality Policy Statement** 

At Sensidyne, we are committed to providing products and services that consistently meet customer needs and comply with all applicable statutory and regulatory requirements.

Our products are designed, manufactured and calibrated in accordance with standards ISO 9001:2015, ISO/IEC 17025:2017, ISO/IEC 80079-34, ATEX Directive 2014/34/EU, and IECEx, where applicable. Through ongoing review of our designs, supplier performance, and customer feedback we strive to ensure continuous improvement.

All employees at Sensidyne share the responsibility to provide products that are produced efficiently and economically representing the best value to our customers. We are committed to meeting or exceeding customer expectations in everything we do.

Sensidyne, LP



#### Warranty

Sensidyne warrants that, at the time of delivery, the Go-Cal *Pro* shall be free of all defects in workmanship and material. Sensidyne will repair or replace, at its sole option, any Go-Cal Pro found to be defective by Sensidyne, if notified by Purchaser within the Warranty time period.

The warranty time period shall be for two (2) years from the date of original shipment by Sensidyne, except as noted below.

A. Exceptions to the above two year warranty time period:

- 1. The rechargeable NCA battery assembly has a one (1) year warranty.
- B. This warranty shall be null and void on any product which:
  - 1. is operated or used in excess of the product's operating specifications; or
  - 2. is not properly maintained in accordance with section 4.7 or specifications; or
  - 3. has been repaired or modified by persons other than authorized Sensidyne personnel or Factory Trained Service Centers, unless such work is authorized in advance in writing by Sensidyne; or
  - 4. has been damaged, abused, or misused.
- C. Warranty on Service and Repairs:
  - 1. Goods, which have been repaired or replaced during the warranty period, are warranted only for the remainder of the unexpired portion of the original warranty period.
  - 2. Repairs or service provided not pursuant to warranty: 180 days from date of shipment by Sensidyne.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT BEING LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED, AND CONSTITUTES THE ONLY WARRANTY OF SENSIDYNE WITH RESPECT TO GOODS SOLD OR DELIVERED.



#### **Table of Contents**

Firmw	are Version	I		
Quality Policy Statement II				
Warra	Warranty III			
Table	of Contents	IV		
SECT	ION ONE: Preface	1		
WAR	NINGS	3		
Certifi	cations, Approvals and Compliances	5		
SECT	ION TWO: Introduction	6		
2.1.	Product Description	6		
2.2.	Theory of Operation	7		
2.3.	Go-Cal Pro Calibration Kit Descriptions	7		
SECT	ION THREE: Set-Up	8		
3.1.	Go-Cal Pro Identifiers	8		
3.2.	Go-Cal Pro Components	9		
3.3.	Preparation	10		
3.4.	System Set Up	11		
3.5.	Connecting the Sampling Source	12		
SECT	ION FOUR: General Operation	13		
4.1.	Overview	13		
4.2.	Navigation	14		
4.3.	Setting Operational Functions	15		
4.4.	Home Screen Displays and Operation Features	22		
4.5.	Reports and Data Storage	26		
4.6.	SmartCal	29		
4.7.	Maintenance	29		
4.8.	Short-Term Storage	29		
4.9.	Long-Term Storage	29		
4.10.	Battery Charging and Capacity	30		
4.11.	Troubleshooting	30		
4.12. Icon Glossary				
4.13.	Revision History	30		



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## **WARNINGS MARNINGS AND INSTRUCTIONS BEFORE USE**

Failure to read, understand, and comply with **ALL** accompanying literature, instructions, product labels, and warnings could result in property damage, severe personal injury, or death.

Read and understand **ALL** applicable environmental health and safety laws and regulations before operating this product. Ensure complete compliance with **ALL** applicable laws and regulations before and during the use of this product.

**UNDER NO CIRCUMSTANCES** should this product be used except by qualified, trained, technically competent personnel and not until the warnings, *Operation Manual, Service Manual*, labels, and other literature accompanying this product have been read and understood. **DO NOT** remove, cover, or alter any label or tag on this product, its accessories, or related products.

The Go-Cal Pro Air Flow Calibrator is intended for both indoor and outdoor use. The unit is not waterproof. **NEVER** submerge the unit in water or draw liquids of any type into the unit, as failure, faulting or user injury may result.

Do Not operate this unit with corrosive gasses or gasses that condensate.

**Do Not** pressurize the calibrator.

The Go-Cal Pro Air Flow Calibrator is not intrinsically safe and should not be used in explosive atmospheres. Refer to the Certifications and Approvals section for approval ratings.

**DO NOT** operate this product should it malfunction, require repair, or have a cracked or broken case or other visible or known damage. Operation of a malfunctioning product, or a product requiring repair may result in serious personal injury or death.

**DO NOT** operate with a dirty or blocked inlet filter or kinked tubing.

**DO NOT** attempt to repair or modify the instrument, except as specified in the *Operation Manual*. If repair is needed, contact the Sensidyne Service Department or local authorized service center to arrange for a Returned Material Authorization (RMA).

Use **ONLY** genuine SENSIDYNE<sup>®</sup> replacement parts when performing any maintenance procedures described in this manual. *Failure to do so may seriously impair instrument performance*. Repair or alteration of the product beyond the scope of normal operation specified in this manual, or by anyone other than an authorized SENSIDYNE<sup>®</sup> Service Center, could cause the product to fail to perform as designed.

This product uses rechargeable lithium nickel cobalt aluminum oxide (NCA) batteries. <u>Always fully charge before use</u>. DO NOT attempt to deeply discharge the internal battery assembly.

**DO NOT open the Go-Cal Pro Calibrator, charge or replace batteries in an explosive atmosphere.** Use only the charging cable provided for the Go-Cal Pro Air Flow Calibrator as specified. Battery is nominal 3.2V (3.6V max.). **Caution: The unit may become warm during charging.** 

**Go-Cal Pro batteries may only be replaced by an authorized Sensidyne Service Center.** NCA batteries must be promptly disposed of in a manner that corresponds to local regulatory requirements for Lithium Batteries. Keep away from children. The battery used in this device may present a risk of fire or chemical burn if mistreated. Do no disassemble, heat above 140°F (60°C), or incinerate. Replace battery with Sensidyne Battery Assembly (P/N 615-1901-01-R) only. Use of another battery may present a risk of fire or explosion.

**Do not disassemble or reconstruct battery assembly.** The battery assembly has safety functions and a protection circuit to avoid danger. If those have serious damage, the assembly may generate heat, smoke, rupture, or burn.

**Do not short-circuit battery assembly.** Do not connect the + and - terminals with metals (such as wire). Do not carry or store the battery assembly with metal objects (such as wire, necklace, or hairpins). If the battery assembly is short-circuited, excessive large current will flow and then heat generation, smoking, rupture, or burning will occur. In addition, it causes heat generation at metals.

**Do not incinerate or heat the battery assembly.** These cause the melting of insulator, damage of gas release vent or safety function, or ignition of electrolyte. The above mentioned actions cause heat generation, smoking, rupture, or burning.

If the Go-Cal Pro Air Flow Calibrator comes into contact with a destructive substance(s) it is the responsibility of the user to take suitable precautions that prevent the unit from being adversely affected. Destructive substances include acidic liquids or gases that may attack metals, solvents that may affect polymeric materials, other solvents, or corrosives. Suitable precautions are regular checks as part of routine inspections and establishing from material data sheets that chemicals known to be present do not have an adverse effect on the material of the unit (polycarbonate, polyester, silicone, Buna-N, Neoprene, Stainless steel, brass and epoxy).



#### **Certifications, Approvals and Compliances**

The Go-Cal Pro is EN 61010-1, CE, RoHS and EMC compliant. The Go-Cal Pro contains an internal battery which has been approved for shipping and transport per UN/DOT 38.3 and IEC 62133-2 (2<sup>nd</sup> Edition).

Labels

Examples of Product Labeling shown below:



NOT CERTIFIED FOR USE IN AREAS WITH FLAMMABLE OR EXPLOSIVE GAS OR DUST

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#### Sensidyne Document No. 360-0266-01 – Rev B

#### **SECTION TWO: Introduction**

#### 2.1. **Product Description**

The Go-Cal Pro Air Flow Calibrator is an easy to use calibration system used for setting the flow rate of air sampling equipment. The system is comprised of a venturi/critical orifice flow path that uses highly accurate pressure differential sensor technology to derive precise airflow. There are three Go-Cal Pro models that cover ranges as follows:

- Low: 5 cc/min to 600 cc/min (0.005 LPM to 0.6 LPM)
- Standard: 600 cc/min to 5,000 cc/min (0.6 LPM 5 LPM)
- High: 4,000 cc/min to 30,000 cc/min (4 LPM 30 LPM)

Features of the Go-Cal Pro Air Flow Calibrator include an easy-to-read color touch screen LCD display; multi-screen user interface with drop down menus and screen keyboard input capabilities; corrections for standard temperature and pressure; statistical analysis via percent deviation of air flow; ability to save and name individual calibration records; and the ability to preview and export calibration records in Bitmap, PDF and CSV formats. You can also specify the duration of samples to be taken (5 to 5000 seconds) for averaging.

Go-Cal Pro Kits include an Air Flow Calibrator, Power Supply, USB-C Cable, Tubing, Adapters, Fittings and Flash Drive (Manual, Quick Start Guides and Software).

The Go-Cal Pro offers +/- 1% accuracy or +/- 2 cc/min, whichever is greater, across the full range of air flow at normal temperature and pressure (NTP). NTP is commonly used as a standard condition for testing and documentation of air flow. Normal Temperature and Pressure is defined as air at 20°C (293.15 K, 68°F), and 1 atm (101.325 kN/m2, 101.325 kPa, 14.7 psia, 0 psig, 29.92 in Hg, 407 in H2O, 760 torr), and density of 1.204 kg/m3 (0.075 pounds per cubic foot). The temperature accuracy is typically +/-  $0.3^{\circ}$ C (Max= +/-  $0.5^{\circ}$ C). The pressure accuracy is typically +/- 0.0025 atm.

The Go-Cal Pro has an operating temperature range of 0°C (32°F) to 40°C (104°F). Operating Time is 24 hrs (continuously with screen dimming function). The Go-Cal Pro achieves over 400 calibrations on a single charge (based on 30 second averaging and pump adjustments up to 2 minutes each).

Note: Temperatures extremes (Hot and Cold), and ambient pressure can impact the flow rate results perceived by all calibrators. The Go-Cal Pro Air Flow Calibrator is designed to compensate for changes in ambient temperature 0°C (32°F) to 40°C (104°F) and pressure 525 – 1160 mmHg, up to an altitude of 2,000 meters. Additionally, relative humidity must be within 90% RH noncondensing (Not for use in wet locations).



#### 2.2. Theory of Operation

The Go-Cal Pro uses venturi and orifice plate methods to create a steady air flow across two pressure sensors. This operation works by measuring the difference in pressure at two different locations. The pressure difference is created by reducing the diameter of the pipe causing the air to flow faster. The fast moving air has a lower pressure than the slower air in the larger section of the venturi or orifice plate. This pressure differential is then used for flow calculation within the instrument.

#### 2.3. Go-Cal Pro Calibration Kit Descriptions

Kits are available in single and combination flow ranges. A matrix chart for the available kits are provided below.

Kit Type		Carrying	
	• Low Flow (5 to 600 cc/min)	Case	
	• Standard Flow (600 to 5000 cc/min)     • High Flow (4 to 30 LPM)		
	One Flow Meter		
Single Flow Meter Without Case	910-1910-EN-R: Go-Cal Pro Low Flow 910-1911-EN-R: Go-Cal Pro Low Flow w/ BT 910-1920-EN-R: Go-Cal Pro Standard Flow 910-1921-EN-R: Go-Cal Pro Standard Flow w/ BT 910-1930-EN-R: Go-Cal Pro High Flow 910-1931-EN-R: Go-Cal Pro High Flow w/ BT		
	One Flow Meter		
Single Flow Meter With Case	Single Flow Meter With Case910-1912-EN-R: Go-Cal Pro Low Flow w/ BT 910-1913-EN-R: Go-Cal Pro Standard Flow 910-1922-EN-R: Go-Cal Pro Standard Flow w/ BT 910-1923-EN-R: Go-Cal Pro High Flow 910-1933-EN-R: Go-Cal Pro High Flow w/ BT		
Combination Flow Meters With Case	Two Flow Meters 910-1940-EN-R: Go-Cal Pro Low and Standard Flow 910-1941-EN-R: Go-Cal Pro Low and Standard Flow w/ BT 910-1950-EN-R: Go-Cal Pro Low and High Flow 910-1951-EN-R: Go-Cal Pro Low and High Flow w/ BT 910-1960-EN-R: Go-Cal Pro Standard and High Flow 910-1961-EN-R: Go-Cal Pro Standard and High Flow w/ BT		
Deluxe Kit With Case	All Three Flow MetersDeluxe Kit910-1970-EN-R: Go-Cal Pro Deluxe KitVith Case910-1971-EN-R: Go-Cal Pro Deluxe Kit w/ BT		

Note: Product numbers vary by region. Contact your local distributor to confirm correct product language versions.



#### SECTION THREE: Set-Up

#### 3.1. Go-Cal Pro Identifiers

The Go-Cal Pro Air Flow Calibrator contains the following components:



Figure 3.1

- A LCD Display
- B Outlet Barb (Vacuum)
- C Inlet Barb (Pressure)
- D USB-C Port (Charging and Communication)
- E On/Off Power Button
- F Kickstand (Rear Support)
- G Warning Label
- H Part Number, Serial and Model Label



#### **3.2. Go-Cal Pro Components**

The **ON/OFF Power Button**, located on left side of the unit, turns the unit on and off. Once turned on, the **LCD Display** screen that will illuminate and display the "Go-Cal Pro" insignia, along with the date of last calibration.

The Go-Cal Pro is powered by an internal lithium nickel cobalt aluminum oxide (NCA) battery and charging is powered from the **USB-C Port** below the Inlet barb on the left side of the unit. Communications to a computer is achieved via the **USB-C Port**, located on left side of the unit.

The Go-Cal Pro can be used with the Gilian GilAir Plus Pumps to perform SmartCal Calibrations. This is achieved by connecting the unit to the Gilian GilAir Plus docking stations using the accessory SmartCal cable kit (**Not Included** with Go-Cal Pro kits).

The **Inlet Barb** is located on the left side of the unit. The **inlet** is used for makeup air when calibrating a device in suction/vacuum mode (i.e. personal and area sampling pumps). The **inlet barb** can also be used to connect a hose to measure positive pressure flow.

The **Outlet Barb** is located on the right side of the unit. The **outlet** is used when calibrating a device in suction/vacuum mode. The **outlet barb** exhausts airflow when calibrating positive pressure flow through the inlet barb. See Figure 3.2.



Figure 3.2



#### 3.3. Preparation

The Go-Cal Pro Air Flow Calibrator arrives fully assembled. The kits include Air Flow Calibrator(s), Power Supply, USB-C Cable, Tubing, Adapters, and Flash Drive with Manual, Quick Start Guide and Software.

#### **IMPORTANT**

Before proceeding, you MUST charge the battery to full capacity prior to using the calibrator. The Go-Cal Pro calibrator is rated for 5VDC/1A. Use only the power adapter provided from CUI, Inc. (PN 811-0509-01-R/Mfg. PN SMI5-5-V-I138). Do not use alternate USB power supply source with differing power rating, as this may affect the safety protection of the device. To charge the calibrator, plug the USB-C Cable into the AC power supply. Connect the AC power supply to mains supply. The supply can accept 100-240 VAC at 50 or 60 Hz. Allow up to 6 hours for a complete charge. The Go-Cal Pro is categorized as Overvoltage Category: I, and Pollution Degree: 2.



Figure 3.3



#### 3.4. System Set Up

This section describes the steps necessary to set up the Go-Cal Pro Calibration System. This includes initial setup, connecting the tubing, and setting up the sampling source. Figure 3.4 shows how a complete Go-Cal Pro Calibration System may be configured.

## NOTE: For proper setup and usage while calibrating your air sampling pump, ensure that the tube length between your media and the Go-Cal Pro does not exceed 9 inches in length.

If you plan to use the Go-Cal Pro in the field, make certain the unit is fully charged before operating the unit. If you plan to use the unit in the lab/office (i.e., near an AC wall outlet), you can continue with setup and operation immediately.



Figure 3.4

The flow source must not be connected when unit is powered on. The Go-Cal Pro must acclimate to the ambient temperature prior to starting the airflow. A pop-up window will appear if the calibrator detects airflow prior to taking the ambient readings. It is recommended to allow your calibrator to acclimate to the environment for up to 30 minutes prior to use.







#### **3.5.** Connecting the Sampling Source

The sampling source to be calibrated may be either a positive pressure device (exhausts air), connected to the left hose barb or a negative pressure device (i.e. suction pump) connected to the right hose barb. Tubing must be selected based on the flow range and inlet/outlet barb sizes. The High flow meters come with a 3/8 inch (OD) barb. The Standard flow meters come with a 1/4 inch (OD) barb and Low flow meters come with a 1/8 inch (OD) barb. Step-down adapters are provided with the kit, (1) 3/8" to 1/4" adapter, and (1) 1/4" to 1/8" adapter.

Note: If sampling source will be used with a filter media, ensure that the media is placed in between the sampling source and the calibrator to account for backpressure. Failure to do so will alter the flow rates of sample.



#### 4.1. Overview

The Go-Cal Pro has the capability of reading and recording flow rate over the range of 5 cc/min to 30,000 cc/min (30 LPM) by use of three distinct flow rate models (Low ranges: 5-600 cc/min, Standard: 600 – 5000 cc/min, and High: 4-30 LPM), that are selected based on the desired flow rate of the sampling source. The Go-Cal Pro contains a STP sensor that measures the ambient temperature and pressure and can correct sample flows to Standard conditions. Standard temperature and pressure can be set to desired values.

The calibrator may be set up to sample and average for user specified time, ranging from a 5 – 5000 seconds. While averaging, the calibrator will provide a percent deviation value that is ((Flow Reading 1 – Flow Reading 2)/(Flow Reading 1))\*100% and lets the user evaluate the stability of the flow measurement in real-time. The user may select from a range between 0.5 - 5% for the threshold, so that the number is displayed GREEN if below, and RED if above.

The live flow measurement will always be displayed on the LCD for the user to make pump adjustments. Once the flow is stable, the user can press the "START" button to begin sampling data for the report. Once samples are collected, the SAVE button will be enabled to allow the user to save the report to internal memory. Reports can be downloaded from internal memory, using the Gilian Connect Pro software, for easy printing and spreadsheet applications.

Note: Do not have flow source running when unit is powered on. The flow meter must acclimate to the ambient temperature prior to starting the airflow.



#### 4.2. Navigation

The Go-Cal Pro Air Flow Calibrator uses an intuitive touchscreen LCD Display for menu navigation and operation.

The menu bar is vertical and is located on the right edge of the screen. The menu bar tabs are summarized in the following table.

Symbol	Name	Tab Summary
*	Home Screen	<b>Home Screen</b> displays: Battery Life, and Flow Cell type with flow range, Time, Date, Sample Timer Ring, Live Flow Rate, Average Flow Rate, Percent Deviation, Sample Start Button, Record Save Button, Ambient Temperature and Ambient Pressure.
	Reports Screen	<b>Reports Screen</b> displays: most recent calibration reports by date, allows for preview of reports, and for deletion of single or all reports.
٢	Settings Screen	<ul> <li>Settings Screen toggles between four settings pages.</li> <li>Sampling Tab allows selection of Sampling Period, Standard Temperature and Pressure (STP) Advanced Mode and Reference Values, Percent Deviation Threshold, and Temperature/Pressure display control.</li> <li>Display Tab allows for selection of Language, Date Format, Brightness Control, and selection of Temperature, Pressure and Flow units of measurement.</li> <li>Maintenance Tab allows user to set the Sleep Timer, set the Time and Date, and perform a Factory Reset.</li> <li>Info Tab displays the flow meter's Serial Number, Firmware Version, Date of last calibration, service due date, and information on contacting a local service center.</li> </ul>



#### 4.3. Setting Operational Functions

The operation of the calibrator is controlled by entering the **Settings** "<sup>(a)</sup>" menu tab and selecting the operational parameters that the user desires for sampling. The settings menu has submenus that allow control of related functions. A Settings reference display appears in the following table.

Display Image	Description
50%       C       Settings and Info       04:30 PM 03/26/2023         Sample Period       STP Advanced Mode       Image: Constraint of the second	Settings Sampling Tab allows selection of Sampling Period, Standard Temperature and Pressure (STP) Advanced Mode and Reference Values, Percent Deviation Threshold, and Temperature/Pressure display control.
50%     Q:     Settings and Info     04:30 PM 03/26/2023       Sample Period     STP Advanced Mode       10 seconds     ON       STP Reference Temp *C     % Deviation       25.0     -       STP Reference Pressure (in/H20)     Temperature / Pressure       406.7     ON       Sampling     Display       Maintenance     Info	Selecting Sample Period – This feature allows the user to select the time of samples within an averaging set. Touch the <b>Sample Period</b> button, and a window will appear. Choose from one of four pre-selected values, or select other to open a keyboard window and select a value from 5 to 5000.
Sample Period 5 seconds 15 seconds 30 seconds Other	Type the number, ranging from 5 – 5000, of seconds you wish to have averaged in your sample set. Touch the <b>Done</b> Button to complete this selection.
Sample Period in Seconds Exit Seconds Done 1 2 3 4 5 6 7 8 9 0 (	

## Go-Cal Pro

Display Image	Description
50%     Settings and Info     04:30 PM 03/26/2023       Sample Period     STP Advanced Mode       10 seconds     ON       STP Reference Temp *C     % Deviation	Selecting Reference Temperature – Touch the reference temperature button on the screen below the text. The Input Keyboard will appear.
25.0     -     Image: Constraint of the second seco	Note: User may change from <sup>o</sup> F to <sup>o</sup> C on Settings Display Tab.
STP Reference Temperature	Use keyboard to enter the reference temperature based on local accepted preferences and touch the <b>Done</b> button.
	Selecting Reference Pressure – Touch the reference pressure field on the screen below the text. The Input Keyboard will appear.
	Note: User may select units from four units of pressure: in/H <sub>2</sub> O mmHg, kPa, or hPa on Settings Display Tab.
STP Reference Presssure Exit 423 Done 1 2 3 4 5 6	Use keyboard to enter the desired reference pressure based on local accepted preferences and touch the <b>Done</b> button.
7890.	
Som       Settings and Info       04:30 PM 03/26/2023         Sample Period       STP Advanced Mode         10 seconds       ON         STP Reference Temp *C       % Deviation         25:0       -         STP Reference Pressure (in/H20)       Temperature / Pressure	Selecting STP Advanced Mode – This feature allows the user to select between a simple volumetric calculation, and an adjusted calculation based upon the ambient pressure and temperature as related to the user's selected reference temperature and pressure.
Sampling Display Maintenance Info	Touch the <b>STP Advanced Mode</b> button to turn this function "ON" or touch again to turn "OFF".
71%       Low (5 - 600) cc/min       1:48pm       04/07/2023         Flow Rate (scormin)       1:48pm       Image: Comparison of the comparison	Note: The Flow Rate units will change to scc/min or sL/min when the calibrator is in STP Advanced Mode.





## Go-Cal Pro





#### Page 19

Display Image	Description	
50%       C       Settings and Info       04:30 PM 03/26/2023         Language       Date Format       M/D/Y       D/M/Y         Screen Brightness       °F °C       Image       Imag	Selecting Temperature Units – Touch the button on the screen below the text to switch from degrees Fahrenheit (°F) to degrees Celsius (°C). Note: The temperature will be displayed in the select units on the Home Screen and corresponding records.	
50%       C       Settings and Info       04:30 PM 03/26/2023         Language       Date Format       M/D/Y       D/M/Y         Screen Brightness       °F       °C       Image: Flow Rate Units       I	Selecting Pressure Units – Touch the button on the screen below the text to select from four units of Ambient pressure; in/H <sub>2</sub> O, mmHg, kPa, or hPa. Note: The Ambient Pressure will be displayed in the select units on the Home Screen and corresponding records.	
50%       Q:       Settings and Info       04:30 PM 03/26/2023         Language       Date Format       M/D/Y       D/M/Y         Screen Brightness       Temperature Units       *F       *C         Pressure Units       °F       *C       Flow Rate Units         inH2O mmHg       kPa       hPa       C/min       L/min         Sampling       Display       Maintenance       Info	Selecting Flow Rate Units – Touch the button on the screen below the text to switch from cubic centimeters per minute (cc/min), recommended for <i>Low Flow Rate</i> sampling sources, to liters per minute (L/min), recommended for <i>High Flow Rate</i> sampling sources. Note: The Air Flow will be displayed in the select units on the Home Screen and corresponding records.	
50%     C     Settings and Info     04:30 PM 03/26/2023       Sleep Timer     Set Time     Image: Comparison of the set Date       Factory Reset     Set Date     Image: Comparison of the set Date       Bluetooth Communication     Image: Comparison of the set Date     Image: Comparison of the set Date       Sampling     Display     Maintenance     Info	<b>Settings Maintenance Tab</b> allows user to set the Sleep Timer, set the Time and Date, and perform a Factory Reset. A Bluetooth Communication button will also be present on Bluetooth models only.	

## Go-Cal Pro

Display Image	Description
50%     C     Settings and Info     04:30 PM 03/26/2023       Sleep Timer     Set Time     Image: Comparison of the set Date       Factory Reset     Set Date       Bluetooth Communication       Image: ON	Selecting Sleep Timer - Touch the button on the screen below the text. This feature allows for the user to save power by setting a period of inactive time before the unit shuts down.
Sampling Display Maintenance info	A window will appear with five choices of Sleep Times to choose from. Select a pre-set time or Never option and the button will now display that selected Sleep Time option. Note: To awaken the unit, press the On/Off power button on the left side of the Go-Cal Pro.
50%       C:       Settings and Info       04:30 PM 03/26/2023         Sleep Timer       Set Time       Image: Comparison of the set Date         Factory Reset       Set Date       Image: Comparison of the set Date         Bluetooth Communication       Image: Comparison of the set Date       Image: Comparison of the set Date	Setting the Time – Touch the button on the screen to program in the local time. A pop-up window will appear.
Sampling Display Maintenance Info Set Time Hour Minute 10 59 24hr 11 1 0 12 2 PM Exit Done	Select from a 24 hour format or 12 hour format using AM or PM. Once the time and format has been updated, touch the <b>Done</b> button.
50%       C       Settings and Info       04:30 PM 03/26/2023         Sleep Timer       Set Time       Image: Comparison of the set Date         Factory Reset       Set Date       Image: Comparison of the set Date         Bluetooth Communication       Image: Communication       Image: Communication	Setting the Date – Touch the button on the screen to program in the local date. A window will appear.
SamplingDisplayMaintenanceIntoSet DateMonthDayYear121212111	Scroll through the month day and year sections to select the current date. Once the date is correct, touch the <b>Done</b> button.
2 2 2 Exit Done	Note: The Date will be displayed in the selected format on the Home Screen and corresponding records.



Display Image	Description	
50%     0:     Settings and Info     04:30 PM 03/26/2023       Sleep Timer       -     >     Set Time       Factory Reset     Set Date     Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2"       Colspan="2">Colspan="2"       Colspan="2"       Colspan="2"	Factory Reset - Touch the button on the screen to reset the Go-Cal Pro to factory conditions. A window will appear asking the user to confirm the	
Sampling Display Maintenance Info	reset. Touch the <b>Yes</b> button to confirm or <b>No</b> button to cancel the reset.	
Are you sure you want to restore to factory settings?	When the reset process is complete, the unit will automatically turn off. The user will then need to manually power the unit back on.	
No Yes	Note: Factory Reset will remove all sample reports and saved pump records.	
	Bluetooth Communication – Touch the button on the	
50%) 🕃 Settings and Info 04:30 PM 03/26/2023	screen below the text. This feature allows for Bluetooth	
Sleep Timer	connections to enabled devices with Sensidyne Bluetooth Applications.	
Factory Reset     Set Date       Bluetooth Communication       Image: Communication       Image: Communication	Touch the <b>Bluetooth Communication</b> button to turn this function "ON" or touch again to turn "OFF".	
Sampling Display Maintenance Info	Note: This feature is only available on Go-Cal Pro Bluetooth versions.	
50%) <b>Bettings and Info</b> 04:30 PM 03/26/2023 Serial Number Last Calibration	Settings Info Tab - Displays the flow meter's Serial	
48515236 7/25/2022	Number, Firmware Version, date of Last Calibration,	
Firmware Version         Service Due           1.0.0         7/25/2023	service due date, and mornation on contacting a local service center	
For help or service on any Sensidyne product	Service senter.	
<b>SERVSIDITIE</b> 800-451-9444/+1 727-530-3602	Note: The website will display service centers locations	
Service@serisidyne.com	and contact information outside of the U.S.	
Sampling Display Maintenance Info		



#### 4.4. Home Screen Displays and Operation Features

The access to Home screen is controlled by entering the Home "<sup>A</sup>" menu tab. The Home Screen will adjust based on the user settings selected. Home Screen displays; Battery Life, and Model type with flow range, Time, Date, Sample Timing Ring, Live Flow Rate, Flow Average, Percent Deviation, Sample Start Button, Record Save Button, Ambient Temperature, Ambient Pressure, Pressure Mode, and STP Advanced Mode. A Home Screen reference display appears in the following table.





Display Image	Description
93%       Standard (600 - 5,000) cc/min       11:22 AM 11/03/2023         Image: Flow (cc/min)       848.00       Image: Flow (cc/min)         848.62       Image: Flow (cc/min)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature res       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       0.52 %       Temperature (res)       Image: Flow (cc/min)         % Deviation       Temperature (res)       Temperature (res)       Image: Flow (cc/min)         % Deviation       Temperature (res)       Temperature (res)       Temperature (res)       Temperature (res)         % Deviation       Temperature (res)       Temperature (res)       Temperature (res) <th>Home Screen – The Ambient Pressure is displayed in in/H<sub>2</sub>O, mmHg, kPa, or hPa. The Pressure units can be edited on the Settings Display page.</th>	Home Screen – The Ambient Pressure is displayed in in/H <sub>2</sub> O, mmHg, kPa, or hPa. The Pressure units can be edited on the Settings Display page.
Standard (600 - 5,000) cc/min       11:22 AM 11/03/2023         Live       Image: Comparison of the	Home Screen Sample Start Button - To Start a Sample Set - Connect the flow source to the calibrator and touch the <b>Play</b> button icon " <b>P</b> ", to begin the averaging sample data set.
Image: Standard (600 - 5,000) cc/min       11:22 AM 11/03/2023         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Standard (600 - 5,000) cc/min         Image: Standard (600 - 5,000) cc/min       Image: Stand	Home Screen – Live Flow Rate displays the live flow rate measurement in the top section of the sample timer ring. Restart Sample Set - Touch the <b>Restart</b> button icon, " To restart the averaging sample timer/data set. Stop Sample Set - Touch the <b>Stop</b> button icon, " to stop and reset the sample timer.
Standard (600 - 5,000) cc/min       11:22 AM 11/03/2023         Live       Image: Comparison of the	Home Screen – Average Flow displays the flow rate average for the sample set being recorded. Note: The Average Flow will appear once the Sample Timer reaches the completion of the sample ring designated time.

## Go-Cal Pro

Display Image	Description
93%) ∮ Standard (600 - 5,000) cc/min 11:22 AM 11/03/2023	Home Screen – Statistical information in the form of
Live Flow (cc/min) 848.00	Percent Deviation is displayed for the averaging sample set.
Average Flow (cc/min)	Note: The statistical percentage font will turn from
% Deviation 21.3	individual samples is outside the designated range.
0.52 % Pressure (mmHg) (3) 762.8	
93%) F Standard (600 - 5,000) cc/min 11:22 AM 11/03/2023	Home Screen – Save Record Button. The save record button will become highlighted when the sample
Live Flow (cc/min)	average time has been completed.
848.00 Average Flow (cc/min) 848.62	Touch the <b>Save Record</b> button icon "B" to begin input of the record detail.
* Deviation 21.3 0.52 % Pressure (mmHg) 762.8	Note: Selecting the Save Button will take you to the Recently Used Pumps screen.
	Recently Used Pumps Screen – This screen will
Recently Used Pumps Serial Number Pump Model Number Date Last Used	populate with recently used pump information.
	If unpopulated or the flow source name is not
	present, touch the button <b>Skip</b> to continue to input
	If populated and the flow source is named, touch the
Cancel Select Skip	field with the desired flow source, and the input detail will become pre-populated with that pumps model
	and serial number.
Pump Model Number Pump Serial Number	Record Input Screen – The record detail contains four
	User Name, and Sample Identifier.
User Name Sample Identifier	Touch the field below the text "Dump Medal Number"
	to continue to input the record detail. A keyboard will
Cancel	appear.
	Pump Model Keyboard – Enter in the Pump or Flow Source Model. Touch the forward arrow to advance
	to the Pump Serial Number keyboard.
Q W E R T Y U I O P	
ASDFGHJKL-	
ZXCVBNM, . spc	



Display Image	Description
Pump Serial Number	Pump Serial Number Keyboard - Enter in the Pump or
Exit Cone	Flow Source Serial Number. Touch the forward arrow
1 2 3 4 5 6 7 8 9 0 🗲	
QWERTYUTOP	
A S D F G H J K L -	
ZXCVBNM, . SPC	
	Lloon Name Keykeevel Enter in the energy
User Name	user Name Reyboard - Enter in the operator information. Touch the forward arrow to advance to
Exit	the Sample Identifier keyboard.
1 2 3 4 5 6 7 8 9 0 🗲	
OWERTYULOP	
ASDFGHJKL-	
Z X C V B N M , . SPC	
	Sample Identifier Keyboard - Enter in the unique
Sample Identifier	sample identification. Touch the <b>Done</b> button to
Exit Done	complete the record detail.
1 2 3 4 5 6 7 8 9 0 🖛	
OWERTYULOP	
A S D F G H J K L -	
Z X C V B N M , . SPC	
	Record Input Screen - Review the record detail
Pump Model Number Pump Serial Number	information. If correct, touch the <b>Save</b> button.
	, , , , , , , , , , , , , , , , , , ,
User Name Sample Identifier	The report saving window will appear. It may take up
	to 30 seconds to save the report file.
Cancel	
	Note: If file name already exists, a window will
	appear asking if the sample set should be saved as a Post-Event report?
Saving Report	Sample ID Exists
	Sample ID already exists. Do you want to save as a Post-Event report?
	No



#### 4.5. Reports and Data Storage

The access to reports is controlled by entering the **Reports** "<sup>1</sup>" menu tab. The Most Recent Reports screen will update once you have saved your record. The screen displays the most recent calibration reports by date, allows for preview and for deletion of single or all reports.

If an existing sample ID is found in the internal memory when the SAVE button is pressed, the user is prompted to save this record as a post-cal linked to the first record denoted with a "\_POST" behind the sample ID in the reports table (ex. Sample ID\_POST).

When a record is downloaded to Gilian Connect Pro software program, the Data file is created. A page will be displayed with the Date and Time, Sample ID, Pump Model, and a check box in the final column if it has a linked \_POST file

If a linked post-event record is deleted, a new post-event record should be saved before downloading. If the initial record is deleted, the post-event record is deleted as well. When the memory is full, one or more records must be deleted prior to saving the new record.

Display image			Description
C Most Date 01/11/2022 11:33 01/11/2022 11:33 01/11/2022 11:33 01/11/2022 11:33 01/11/2022 11:33	Recent Reports     0       Sample Identifier     Test 1       Test 1     Test 2       Test 3     Test 4       Preview     De	4:30 PM 03/26/2023	Most Recent Reports Screen - Report Screen displays the most recent calibration reports. The reports are sorted by Date and Time, with the most recent at the top of the list. Note: The Post-Event Reports are denoted with the _POST after the sample ID.
Image: System 2         Image: System 2         Most           Date         01/11/2022 11:33         01/11/2022 11:33         01/11/2022 11:33           01/11/2022 11:33         01/11/2022 11:33         01/11/2022 11:33         01/11/2022 11:33	Recent Reports 0 Sample Identifier Test 1 Test 2 Test 3 Test 4	4:30 PM 03/26/2023	Scroll the page up and down using the touchscreen when seven or more records have been stored. Note: The unit will store up to 100 reports in the active memory.
Image: System 2         Most           Date         01/11/2022 11:33           01/11/2022 11:33         01/11/2022 11:33           01/11/2022 11:33         01/11/2022 11:33           Dolete All         Delete All	Recent Reports 0 Sample Identifier Test 1 Test 2 Test 3 Test 4 Preview De	4:30 PM 03/26/2023	Touch the line of desired report to access options to preview or delete.

A Most Recent Reports screen reference display appears in the following table.



Display Image	Description
50%) 0 Most Recent Reports 04:30 PM 03/26/2023	Preview a Report - With the report line highlighted,
Date Sample Identifier	touch the <b>Preview</b> button.
01/11/2022 11:33 Test 1 (a)	
01/11/2022 11:33 Test 3	
01/11/2022 11:33 Test 4	
Delete All Preview Delete	
Go-Cal <sup>™</sup> Pro Flow Verification Report Standard (600 - 5,000) cc/min	Papart Browing Scroop (Tap Half) displays the tap
Date of Event 08/15/2023	portion of the report. Scroll down the display to view remainder of report.
Date Format M/D/Y	
Time of Event 07:29 AM	
Time Format 12 HR	
Rump Model GAD	
Done View Graph	
Go-Cal <sup>®</sup> Pro Standard (600 - 5,000) cc/min	Report Preview Screen (Exit) – touch the <b>Done</b> button to
	return to the Most Recent Reports page.
STP Reference Pressure 406.70	
Pressure Unit of Measure mmHg	
STP Flow Average 0.00	
Done View Graph	
Go-Cal <sup>®</sup> Pro Flow Verification Report Standard (600 - 5,000) cc/min	View Event Graph – touch the <b>View Graph</b> button to
	display a graph of the now rate over time.
STP Reference Pressure 406.70	
Pressure Unit of Measure mmHg	
STP Flow Average 0.00	
STP Flow One of measure	
Done View Graph	
	View Graph Screen (Exit) -touch the Done button to
	return to the Flow Verification Report.
0.0 Average Flow	
0.00	
0.0 % Deviation	
••• 0.00	
2.00 9.00 16.00 23.00 30.00 Seconds	
Done Go-Cal <sup>™</sup> Pro	

## Go-Cal Pro

Display Image	Description
50%         C:         Most Recent Reports         04:30 PM 03/26/2023           Date         Sample Identifier         01/11/2022 11:33         Test 1           01/11/2022 11:33         Test 2         01/11/2022 11:33         Test 3           01/11/2022 11:33         Test 4         Image: Contract of the second	Delete Single Report – with the report line highlighted, touch the <b>Delete</b> button on the display screen.
10:50 AM 08/15/2023         08/         Are you sure you want to delete this report?         No         Yes         Delete All	Delete report window appears. Touch the <b>Yes</b> button to delete the single report.
Soft         Most Recent Reports         04:30 PM 03/26/2023           Date         Sample Identifier           01/11/2022 11:33         Test 1           01/11/2022 11:33         Test 2           01/11/2022 11:33         Test 3           01/11/2022 11:33         Test 4           Delete All         Preview           Delete         01/11/2022	Deleting All Reports – To delete all reports, touch the <b>Delete All</b> button.
10:53 AM 08/15/2023         08/         Are you sure you want to delete all reports?         No         Yes         Delete All	The Deleting All Calibration Reports window will appear. Touch the <b>Yes</b> button to delete all reports.



#### 4.6. SmartCal

The Go-Cal Pro utilizes the USB-C port for use with the SmartCal function of the Gilian GilAir Plus pumps, by attaching to the pump docking station to the Go-Cal Pro using the SmartCal Calibration Kit P/N 911-1901-01-R (Not Included).

In order to use SmartCal with the GilAir Plus, select Go-Cal mode for SmartCal under the setup menu. Plumb the pump to the Go-Cal with your sample train, plug in the 780-0015-02-R cable to the back of the GilAir Plus Dock and the opposite end into the Calibration Adapter, plug the USB-C to USB-C cable into the Calibration Adapter and into the Go-Cal Pro USB-C port, set the pump in the dock position closest to the cables, set the flow rate, and start the calibration process. The pump will communicate with the Go-Cal Pro. Allow up to 2 minutes to complete the hands-free adjustments to the pump.

As measurements are sent to the pump, it will display the latest flow measurement on the screen. Allow the system to run until the calibration process is done and press the "Enter Key" button on the pump to save the calibration.

#### 4.7. Maintenance

The Go-Cal Pro is designed so that little maintenance is required. However, annual calibration, cleaning, replacement of the battery assembly and replacement of the filter element may be required to ensure years of trouble-free operation. Surface cleaning should only be performed using a damp cloth and mild soap solution. Do not submerge any part of the instrument in water or place under running water.

### Note: Go-Cal Pro Maintenance can only be performed by an authorized Sensidyne Service Center.

All electronic and battery components must be disposed of in a manner that corresponds to local regulatory requirements.

#### 4.8. Short-Term Storage

Turn off the unit, the sampling source, and any attached output devices (if applicable). If the unit is not to be used daily, remove the sampling source connections. Prior to next use, plug in the power supply and connect it to the USB-C Port to recharge the unit for next day usage.

#### 4.9. Long-Term Storage

If the Go-Cal Pro is not to be used for long periods of time, use the following procedures to keep the unit in proper working order.

- 1. Disconnect all cables from the unit.
- 2. Store unit indoors (Storage Temperature -10°C to 60°C/ 14°F to 140°F)
- 3. Recharge the unit (up to 6 hours) prior to next usage.



#### 4.10. Battery Charging and Capacity

The battery system in the Go-Cal Pro takes advantage of a new lithium chemistry known as NCA. This battery assembly is much safer than other lithium chemistries and provides a long service life.

The battery run time is strongly affected by the Screen Brightness, so if more operational time is needed, lower the Screen Brightness level in the Settings Tab.

#### 4.11. Troubleshooting

If the firmware freezes up, power down the unit. Do not attempt to open the unit at any time. This may only be performed by an Authorized Service Center.

If the unit is powered on with an active flow source, the sensors will not be zeroed properly. Disconnect the flow source and power off the unit. Press the On/Off Power button again, with no flow source connected, and the unit's sensors will properly zero.

#### 4.12. Icon Glossary



#### 4.13. Revision History

Revision	Description
А	Initial Release of Product. Firmware version 1.0.0
В	Updated Section 4.6 to new SmartCal Cable Kit
	Added Restart instructions to Section 4.3 - Factory Reset
	Firmware updated to version 1.0.1 to allow connection to Gilian Connect Pro



#### Page 31

#### Manufactured by:

#### Sensidyne, LP

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