

SURACELL™ Technology



BREATHALYZER

iblow 10 Pro

USER MANUAL

iblow™ is a registered trademark of Sentech Korea Corp.

Introduction

iBlow10Pro, equipped with "SuraCell" technology (an electrochemical alcohol sensor), is a product that offers the option to measure alcohol levels using both alcohol detection mode and alcohol measurement mode, utilizing a highly durable electrochemical sensor.

This product retains the fast measurement speed, accuracy, LED indicator functionality, measurement result storage, and calibration notification service of the previous iblow10 model, while also introducing wireless communication and rechargeable battery capabilities. These additions make it more convenient for use in industrial settings, enhancing safety management.

Product Composition



Product Composition Detail



- **Blow Kit**

Accessory that helps with easy breath sampling by attaching to the top of iBlow10Pro when secured in place for measurements.



- **Blow cap for breath sampling (replaceable)**

Component that can be separated and cleaned in case of contamination.

- **LED indicator light**

Displays results in red/green based on measurements, with the option for night-time use as an LED indicator.

- **Measurement/Status Display**

Displays measurement results and the product's status through an LCD screen.

- **Built-in magnet (Rear)**

Contains an integrated magnet on the product's rear for attaching it externally, such as to a vehicle.

- **LED Mode/UP button**

Changes between red blinking/red/red and blue blinking modes with each button press.

- **Menu/DOWN button**

Allows navigation to options by pressing the button.

- **Power/SELECT button**

Pressing the button for 3 seconds turns the product on/off and serves as the "select" button in the menu.

- **USB-C port for PC connection & charging.**

Part for connecting to a PC; used with iBlow10Pro PC software to check measurement results and set the product's time.

Package detail **1 x iBlow10Pro, 3 x Blow cap, 1 x USB-C type cable, 1 x Handstrap, 1 x User manual, 1 x Blow kit**

Safety Instructions

Warning

Please read the following instructions before using the product:

- Please use accessories provided by Sentech Korea. Using counterfeit parts may affect measurement results or damage the product.
- Do not disassemble the product without Sentech Korea's agreement. Disassembling the product without authorization may affect measurement results and void the warranty.
- Measure your alcohol level at least after 20 minutes from eating, drinking and smoking. Measuring before 20 minutes may yield inaccurate results due to residual oral alcohol or foreign substances.
- Avoid measuring in contaminated or windy environments, as it may affect measurement result.
- Do not blow cigarette smoke, saliva, or foreign substances into the blow cap and blow kit, as it may damage the sensor.
- For accurate measurements, ensure the measurement is taken approximately 3 ~ 5cm from the blow cap in straight direction. Measurement accuracy may be compromised if taken too far from the blow cap and in different angles due to the influence of surrounding air.
- Do not use the product for purposes other than alcohol measurement. Avoid subjecting the product to physical shocks.
- Do not use the product outside the specified operating temperature range 0°C to 35°C.
- Keep the product away from direct sunlight, dust, and other contaminants.
- Please follow these safety guidelines for proper and safe use of the product.
- Any service in regards to the device should be performed by authorized service provider.

How To Use



1. Initialization

- Product initialization is in progress. Please wait a moment.



2. Stabilization

- Sensor stabilization is in progress . Please wait until BLOW status.



3. Standby for measurement

- Standby for measurement. Blow into the sampling mouthpiece.



4. Analysis

- After sampling is complete, iBlow10Pro calculates the measurement concentration.



5. Measurement results

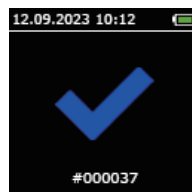
- When the analysis is complete, the results are displayed according to the test mode:

> **Fast mode** : Displayed as ✓(PASS) or ✗(Fail)

> **Normal mode** : Displaying of measurement results



[Normal mode]



[Fast mode]



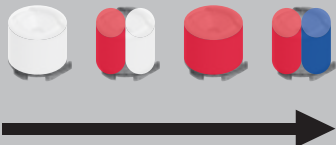
Connecting iBlow10Pro to iSOBER Application via Bluetooth:

- 1. Prepare Your Device:** Ensure the tablet or mobile device you wish to use has Bluetooth functionality enabled.
- 2. Power On iBlow10Pro:** Press the power button on the iBlow10Pro device to turn it on.
- 3. Launch iSOBER Application:** Open the iSOBER application on your device.
- 4. Activate Bluetooth:** Navigate to the settings or connectivity menu. Activate Bluetooth to enable the application to search for available devices.
- 5. Automatic Device Detection:** The iSOBER application will initiate an automatic search for nearby Bluetooth devices. Select the iBlow10Pro device from the list once detected.
- 6. Pairing Confirmation:** Confirm the pairing on both the iBlow10Pro device and the iSOBER application.
- 7. Wireless Connection Established:** The iBlow10Pro device is now ready for use with the iSOBER application via Bluetooth. Utilize both Fast Mode and Normal Mode based on your preferences.

LED Indicator Mode

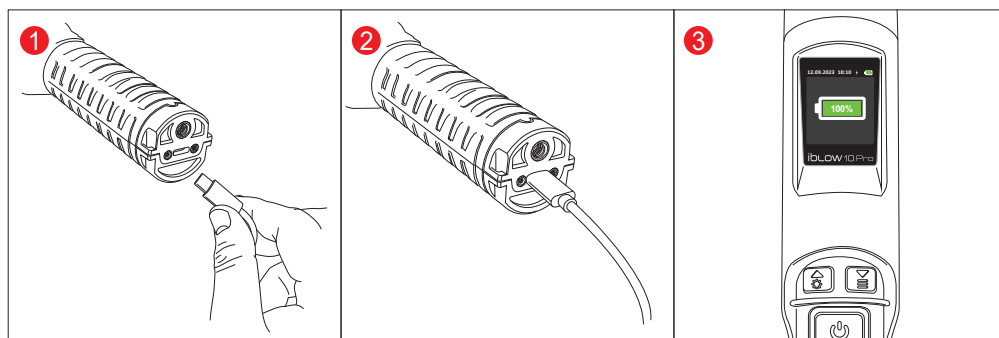
- 1. Press the button  on the device to activate the LED indicator mode.**
 - The LED lamp pattern changes according to the 'Set LED mode' menu.
- 2. Press the button  on the device for 3 seconds to exit the LED indicator mode.**

LED Indicator Modes based on [LED mode]

situation LED mode	BLOW Standby	Measurement result	Light Pattern Sequence (Each time  button is pressed)
	 LED off	 LED off	

situation LED mode	BLOW Standby	Measurement result		Light Pattern Sequence (Each time  button is pressed)
LED ON for result	 LED off	Zero		 →
		Low		
		High		
LED ALWAYS ON	 LED on	Zero		 →
		Low		
		High		

Charging the instrument



1. Insert the USB C-type cable into the USB port of the product.
2. Make sure the sound from the product and  on display.
3. If it shows 100%, it is fully charged, so please remove the charging cable immediately.

Loading Measurement Results/ Setting Time via PC Connection:

1. Download and run the 'SentechView' PC program (please inquire about the installation file from the place of purchase), then connect the product to the PC.
2. Select the device, press the 'Connect' button, and click on the product-shaped icon (located on the far left, the first position) to load measurement results.
3. Additionally, press the gear-shaped icon to proceed with time settings.

Screen Information

Date display •
 Measurement date display (DD/MM/YYYY)
 (the date format changeable in the menu)

Status information •
 Display device status information

Main information •
 Display device measurement result and menu screen

- Measurement time**
 Displays measurement time
- Bluetooth status**
 Indicates that the device is connected to Bluetooth
- Battery status**
 Indicates the current battery status
- Alarm status**
 Indicates the calibration alarm
- * If an alarm sign appears, please request for the calibration service.**
- Number of uses after Calibration**
 Displays the number of uses after calibration that is actually measured

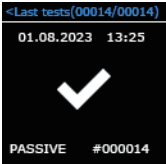
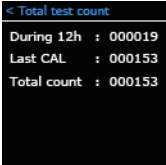
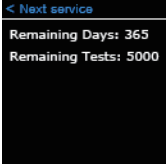
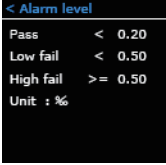
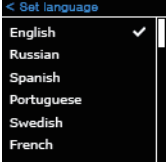
Display image

	Stabilization in progress		Analysis in progress
	Standby for measurement (BLOW)		Normal mode Measurement result display (Display mode "OFF")
	PASSIVE mode PASS		PASSIVE mode FAIL
	Fast mode PASS (Display mode "ON")		Fast mode FAIL (Display mode "ON")

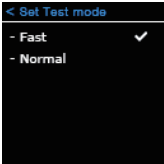
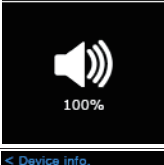
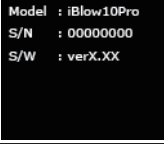
Menu Description

Press the button  to enter menu mode.

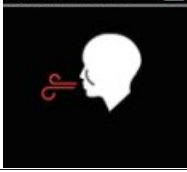
- Navigate upward with the button , downward with the button , and select with the button .

Menu items	Image	Description
• Back to Test		• Exit the menu screen (Return to measurement screen)
• Last Tests		• Checking measurement records - Date and time, measurement results, post-calibration usage count, and passive use status (Use  and  to scroll through the sequence)
• Total Test Count		• Check measurement records - During 12h : Number of uses within 12 hours - Last CAL: Number of uses after the last calibration - Total count: Total usage count of the product.
• Next Service		• Next service notification - Remaining calibration days and count notification.
• Alarm Level		• Check measurement alarm criteria (Pass / Low Fail / High Fail)
• Set Date/Time		• Setting time format, date and time
• Set lanaguage		• Language Settings - Select the language you would like to use.

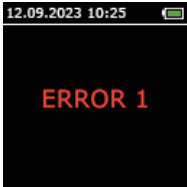
Menu Description

Menu items	Image	Description
• Set Test mode		• Measurement mode settings - Fast: Displays PASS or FAIL as detection mode - Normal: Displays measurement results numerically in measurement mode
• Set Display mode		• Display mode setting - ON: Changes result background color (blue or red) based on measurement level - OFF: No background color change of the measurement result
• Set LED mode		• Setting the LED indicator mode (see LED indicator mode description pg. 6)
• Set Shutdown time		• Auto Shutdown Setting - Set auto shutdown time to 30, 60, 300, 600, or 900 seconds.
• Set Result time		• Result time setting - Set automatic shutdown time to 1-9 seconds.
• Set Buzzer		• Sound settings - Sound volume settings: 0%, 30%, 60%, 100%
• Device info.		• Device info - Model: Product model name - S/N: Product's unique serial number - S/W: Product's software version

Error Description (Operation)

Error image	Description
 The image shows a black screen with a red gear icon in the center. Below the gear is a blue progress bar. At the bottom, the text "#000119" is displayed. The top status bar shows the date "12.09.2023" and time "10:25" with a battery icon.	Calibration requested. - The device requires calibration service. Please contact a service center.
 The image shows a black screen with a white battery icon in the center. The battery is mostly empty, with a small red section on the right. The top status bar shows the date "12.09.2023" and time "10:25" with a battery icon.	Low battery alarm - The battery power is low. Please charge the device.
 The image shows a black screen with a white silhouette of a person's head in profile. A red line representing a breath sample is shown entering the mouth. The top status bar shows the date "12.09.2023" and time "10:25" with a battery icon.	Breath sample error - The breath sample was not enough. Please blow strong and steady during sampling.
 The image shows a black screen with a red thermometer icon in the center. The top status bar shows the date "12.09.2023" and time "10:25" with a battery icon.	High temperature error - The device is inoperable above 55°C.
 The image shows a black screen with a blue thermometer icon in the center. The top status bar shows the date "12.09.2023" and time "10:25" with a battery icon.	Low temperature error - The device is inoperable below -15°C.
 The image shows a black screen with a red padlock icon in the center. The padlock has a gear inside it. The top status bar shows the date "12.09.2023" and time "10:25" with a battery icon.	Calibration locked - The device is locked due to the calibration service period expired. Please contact a service center.

Error Description (Sensor)

Error image	Description
	Pressure sensor error - The pressure sensor is damaged. Please contact a service center.
	sensor error - The sensor is damaged. Please contact a service center.

Product Specifications

Sensor type		Suracell™ sensor (Fuel Cell sensor)
Power Supply		Lithium Polymer battery (3.7V/ 1200mAh) / USB Type-C
Weight		260g (including battery)
Size (mm)		272mm (length) x 44mm (width) x 44mm (thickness)
Test result	LED lamp	Zero (Green) / Low (Red) / High (Red Flashes)
	TFT LCD display	Fast mode : ✓ or ✗ Normal mode : Numerical display of measurement results * “High” displayed above a certain configured value
	Buzzer sound	Zero: one short beep Low: a series of short beeps in a rapid sequence High: a long beep
Warming up time		within 10 seconds
Analysis time		within 2 seconds (at 0.000 %BAC)
Maximum Tests per minute		12 times/ 1 minute
Operating temperature		0°C to 35°C
Storage temperature		-20°C to 60°C
Mouthpiece		Use of replaceable “Blow cap”
Auto power off		Adjustable from 30 to 900 seconds
Result display time		Adjustable from 1 to 9 seconds
Calibration period		Every 5,000 tests or 12 months (Factory Default)
Measurement memory		Up to 5,000 Tests for Measurement Data
Additional features		Built-in Magnet for attachment
		Reminder for Calibration & Grace period
		Calibration Protection function via web server connection
		Multilingual Language Support & Bluetooth pairing
		LED Indicator as a signal baton
INPUT		5V $\overline{\text{--}}$, 0.5A
Operating environment		Indoor use
Operating Altitude		< 2000 m
Operating humidity		(40 to 80) % R.H.
Pollution degree		Pollution degree 2
Operation Frequency		2402 MHz ~ 2480 MHz
Overvoltage Category		OVC I
Maximum Transmit Power		Less than 0 dBm

Warranty

The manufacturer guarantees that the product will be free from any defects in workmanship or materials (excluding calibration) when used normally for a period of twelve(12) months starting from the date of purchase.

The manufacturer's responsibility under this warranty is restricted to replacing, adjusting, or repairing the unit, provided that it is returned with valid proof of purchase. This warranty becomes null and void if the unit has been tampered with or intentionally damaged.

Calibration service and A/S information

For calibration and technical support, please contact us at:

FCC Instructions

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This device may not be co-located with any other transmitters or antennas.

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