

**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



### 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:**

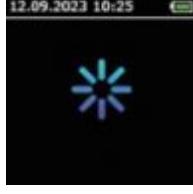
- Please use accessories provided by Sentech Korea. Using counterfeit parts may affect measurement results or damage the product.
- Do not disassemble the product without Sentech Korea's agreement. Disassembling the product without authorization may affect measurement results and void the warranty.
- 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



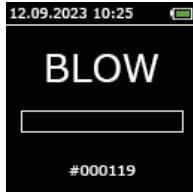
## 1. Initialization

- 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.

- 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]



[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

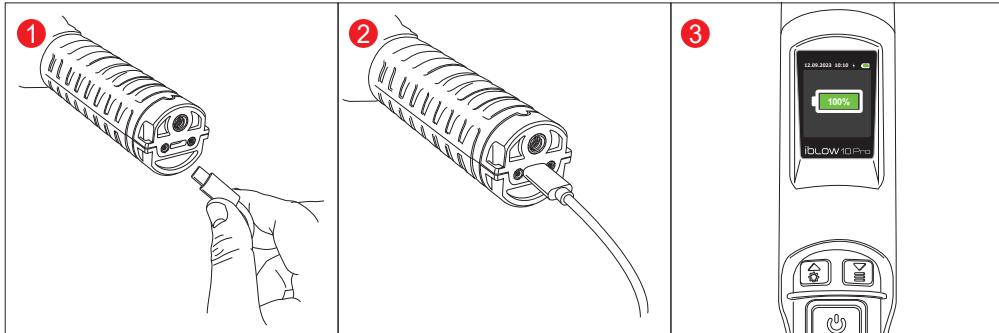
- 1. Press the button  on the device to activate the LED indicator mode.**  
- The LED lamp pattern changes according to the 'Set LED mode' menu.
- 2. Press the button  on the device for 3 seconds to exit the LED indicator mode.**

### LED Indicator Modes based on [LED mode]

situation LED mode	BLOW Standby	Measurement result	Light Pattern Sequence (Each time  button is pressed)
LED OFF for result	 LED off	 LED off	 A sequence of four colored cylinders: white, red, white, and red/blue. A large black arrow points to the right below the sequence.

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

## Charging the instrument

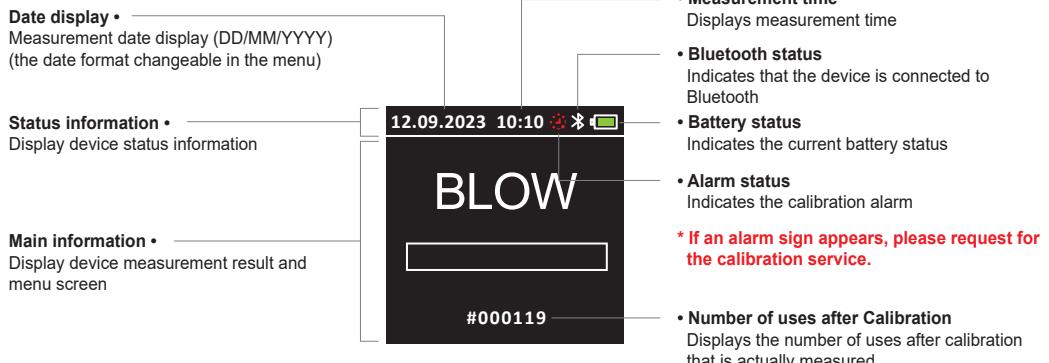


1. Insert the USB C-type cable into the USB port of the product.
2. Make sure the sound from the product and  on display.
3. If it shows 100%, it is fully charged, so please remove the charging cable immediately.

## 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



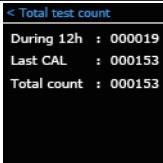
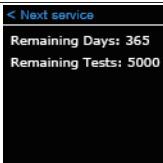
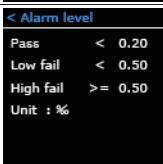
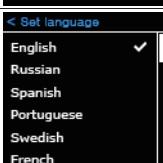
## Display image

A black screen with a blue sunburst icon in the center. The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	Stabilization in progress	A black screen with a yellow sunburst icon in the center. The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	Analysis in progress
A black screen with the word "BLOW" in large white letters. Below it is a small empty box and the number "#000119" at the bottom. The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	Standby for measurement (BLOW)	A black screen with the measurement result "0.00" in large white numbers, a percentage symbol "%", and the number "#000033" at the bottom. The top status bar shows the date and time: 12.09.2023 10:07. The bottom status bar shows battery level.	<b>Normal mode</b> Measurement result display (Display mode "OFF")
A black screen with a large blue checkmark icon in the center. Below it is the word "PASSIVE" and the number "#000116". The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	<b>PASSIVE mode</b> PASS	A black screen with a large red X icon in the center. Below it is the word "PASSIVE" and the number "#000117". The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	<b>PASSIVE mode</b> FAIL
A black screen with a large white checkmark icon in the center. Below it is the word "Fast mode" and the number "#000118". The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	<b>Fast mode</b> PASS (Display mode "ON")	A red screen with a large white X icon in the center. Below it is the word "Fast mode" and the number "#000119". The top status bar shows the date and time: 12.09.2023 10:25. The bottom status bar shows battery level.	<b>Fast mode</b> FAIL (Display mode "ON")

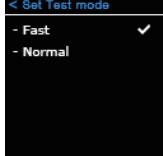
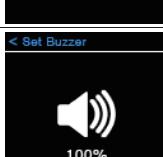
# Menu Description

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		<ul style="list-style-type: none"> <li>• Exit the menu screen (Return to measurement screen)</li> </ul>
• Last Tests		<ul style="list-style-type: none"> <li>• Checking measurement records           <ul style="list-style-type: none"> <li>- Date and time, measurement results, post-calibration usage count, and passive use status (Use  and  to scroll through the sequence)</li> </ul> </li> </ul>
• Total Test Count		<ul style="list-style-type: none"> <li>• Check measurement records           <ul style="list-style-type: none"> <li>- During 12h : Number of uses within 12 hours</li> <li>- Last CAL: Number of uses after the last calibration</li> <li>- Total count: Total usage count of the product.</li> </ul> </li> </ul>
• Next Service		<ul style="list-style-type: none"> <li>• Next service notification           <ul style="list-style-type: none"> <li>- Remaining calibration days and count notification.</li> </ul> </li> </ul>
• Alarm Level		<ul style="list-style-type: none"> <li>• Check measurement alarm criteria (Pass / Low Fail / High Fail)</li> </ul>
• Set Date/Time		<ul style="list-style-type: none"> <li>• Setting time format, date and time</li> </ul>
• Set language		<ul style="list-style-type: none"> <li>• Language Settings           <ul style="list-style-type: none"> <li>- Select the language you would like to use.</li> </ul> </li> </ul>

# Menu Description

Menu items	Image	Description
• Set Test mode		<ul style="list-style-type: none"> <li>• <b>Measurement mode settings</b></li> <li>- Fast: Displays PASS or FAIL as detection mode</li> <li>- Normal: Displays measurement results numerically in measurement mode</li> </ul>
• Set Display mode		<ul style="list-style-type: none"> <li>• <b>Display mode setting</b></li> <li>- ON: Changes result background color (blue or red) based on measurement level</li> <li>- OFF: No background color change of the measurement result</li> </ul>
• Set LED mode		<ul style="list-style-type: none"> <li>• <b>Setting the LED indicator mode</b> (see LED indicator mode description pg. 6)</li> </ul>
• Set Shutdown time		<ul style="list-style-type: none"> <li>• <b>Auto Shutdown Setting</b></li> <li>- Set auto shutdown time to 30, 60, 300, 600, or 900 seconds.</li> </ul>
• Set Result time		<ul style="list-style-type: none"> <li>• <b>Result time setting</b></li> <li>- Set automatic shutdown time to 1-9 seconds.</li> </ul>
• Set Buzzer		<ul style="list-style-type: none"> <li>• <b>Sound settings</b></li> <li>- Sound volume settings: 0%, 30%, 60%, 100%</li> </ul>
• Device info.		<ul style="list-style-type: none"> <li>• <b>Device info</b></li> <li>- Model: Product model name</li> <li>- S/N: Product's unique serial number</li> <li>- S/W: Product's software version</li> </ul>

## Error Description (Operation)

Error image	Description
 12.09.2023 10:25  #000119	<p><b>Calibration requested.</b></p> <ul style="list-style-type: none"><li>- The device requires calibration service.</li></ul> <p>Please contact a service center.</p>
 12.09.2023 10:25  #000119	<p><b>Low battery alarm</b></p> <ul style="list-style-type: none"><li>- The battery power is low.</li></ul> <p>Please charge the device.</p>
 12.09.2023 10:25  #000119	<p><b>Breath sample error</b></p> <ul style="list-style-type: none"><li>- The breath sample was not enough.</li></ul> <p>Please blow strong and steady during sampling.</p>
 12.09.2023 10:25  #000119	<p><b>High temperature error</b></p> <ul style="list-style-type: none"><li>- The device is inoperable above 55°C.</li></ul>
 12.09.2023 10:25  #000119	<p><b>Low temperature error</b></p> <ul style="list-style-type: none"><li>- The device is inoperable below -15°C.</li></ul>
 12.09.2023 10:25  #000119	<p><b>Calibration locked</b></p> <ul style="list-style-type: none"><li>- The device is locked due to the calibration service period expired.</li></ul> <p>Please contact a service center.</p>

## Error Description (Sensor)

Error image	Description
 12.09.2023 10:25 ERROR 1	<p><b>Pressure sensor error</b></p> <ul style="list-style-type: none"><li>- The pressure sensor is damaged.</li><li>Please contact a service center.</li></ul>
 12.09.2023 10:25 ERROR 2	<p><b>sensor error</b></p> <ul style="list-style-type: none"><li>- The sensor is damaged.</li><li>Please contact a service center.</li></ul>

## Product Specifications

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

## **Manufacturer:**

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