SURACELL™ Technology



BREATHALYSER

iblow 10 Pro

OPERATOR'S MANUAL

iblow™ is a registered trademark of Sentech Korea Corp.

Overview

iBlow10 Pro is a highly durable rapid industry and law-enforcement alcohol breathalyser equipped with a SuraCell™ electrochemical fuel cell sensor providing the ability to measure breath alcohol levels using both active and passive detection modes.

iBlow10 Pro retains the rapid measurement speed, accuracy, LED indicator functionality, measurement result storage and calibration notification feature of the previous iBlow10 model whilst also introducing Bluetooth Low Energy (BLE) communication and rechargeable battery capabilities. These features make iBlow10 Pro convenient for use in industrial, law-enforcement and mining environments enhancing health and safety management.

Product Description, Features and Functions





- **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 removed and cleaned.

- **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/Back of breathalyser)**

  Contains an integrated magnet on the product's rear for attaching iBlow10 Pro to external metal surfaces and gates including vehicle bodies.

- **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

⚠ Warnings

Please read the following instructions before operating iBlow10 Pro:

- Please use accessories manufactured by Sentech Korea sold by Alcohol Breathalysers Pty Ltd. Using counterfeit parts may affect results or damage the product.
- Do not disassemble the product without Alcohol Breathalysers Pty Ltd agreement. Disassembling iBlow10 Pro without authorisation may affect measurement results and void the warranty immediately.
- Breath tests should be performed at least 20 minutes after an individual has consumed any food or drink of any kind or after inhalation of smoke.Taking measurements prior to 20 minutes after consumption may cause inaccurate results due to the presence of residual mouth alcohol or other chemical substances present in the oral cavity.
- Avoid taking measurements in contaminated or windy environments as it may affect measurements.
- Do not blow smoke, saliva, or foreign substances into the blow cap and blow kit, as it may damage the internal sensor.
- For accurate results, ensure that measurements are taken approximately 3 ~ 5cm from the blow cap. Measurement accuracy may be compromised if tests are taken far from the blow cap.
- Do not use the product for purposes other than breath alcohol measurement and avoid subjecting iBlow10 Pro to any physical shocks or impacts.
- Do not use the product outside the specified operating temperature range -15°C to 55°C.
- Store the product away from direct sunlight, dust, liquids, gases and other contaminants.
- Please follow these safety guidelines for proper and safe use of the product.
- Any service or support required should strictly be performed by Alcohol Breathalysers Pty Ltd

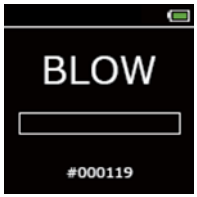
How To Operate



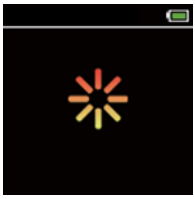
1. Initialization
- Product initialization is in progress. Please wait a moment.



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.

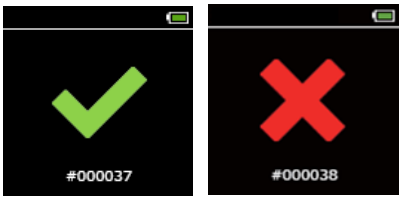


5. Measurement results
- When the analysis is complete, the results are displayed according to the test mode:
  > **Pass / Fail mode** : Displayed as ✓(PASS) or X(Fail)
  > **Digital Result mode** : Displaying of measurement results

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[Digital Result mode]



[Pass / Fail 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. BLE must be turned on.

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 (BLE) 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.

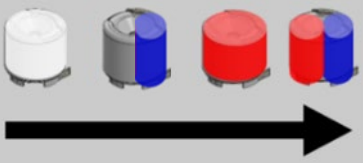
6. **Pairing Confirmation:** Confirm the pairing on both the iBlow10Pro device and the iSOBER application. This will normally be automatic.

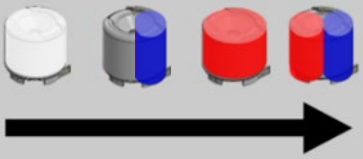
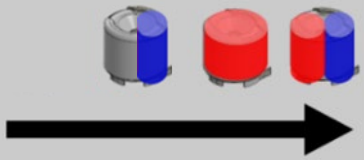
7. **BLE Connection Established:** The iBlow10 Pro is now ready for use with the iSOBER application via Bluetooth. Utilize both Fast Mode and Normal Mode based on your preferences.

LED Indicator Mode

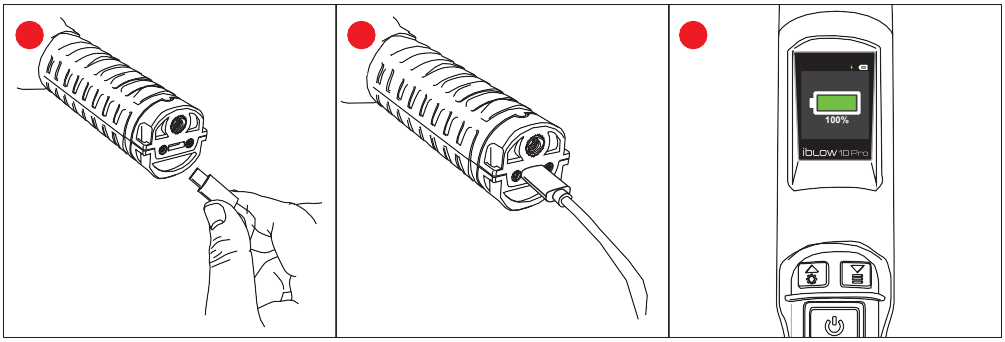
1. **Press the button on the device to activate the LED indicator mode.**
   - The LED lamp pattern changes according to the 'Set LED mode' menu.
2. **Press the button on the device for 3 seconds to exit the LED indicator mode.**

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**	

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 iBlow10 Pro



1. Insert the USB C-type cable into the USB port of the product.
2. Make sure you see that the device is charging and 99% on the display.
3. If it shows 100%, it is fully charged, so please remove the charging cable immediately.

Screen Information



Status information •
Display device status information

Main information •
Display device measurement result and menu screen

• **Bluetooth status**
Indicates that the device is connected to Bluetooth

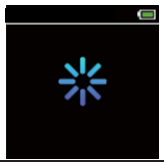
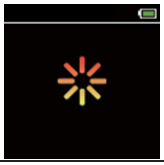
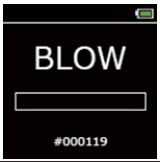
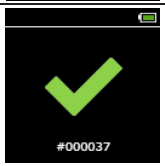
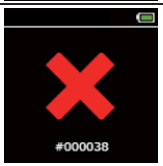
• **Battery status**
Indicates the current battery status

• **Alarm status**
Indicates the calibration alarm

* If an alarm sign appears, please request calibration service.

• **Number of uses after Calibration**
Displays the number of uses after calibration that is actually measured

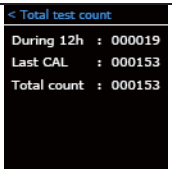
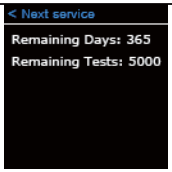
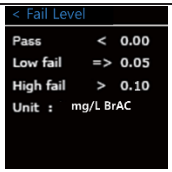
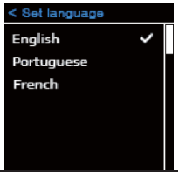
Display image

	**Stabilization in progress**		**Analysis in progress**
	**Standby for measurement (BLOW)**		**Normal mode** Measurement result display (Display mode “OFF”)
	**Pass / Fail mode** PASS (Display mode “Off”) (Passive mode “Off”)		**Pass / Fail mode** FAIL (Display mode “Off”) (Passive mode “Off”)
	**Pass / Fail mode** PASS (Display mode “ON”) (Passive mode “ON”)		**Pass / Fail mode** FAIL (Display mode “ON”) (Passive mode “ON”)

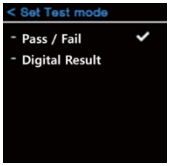
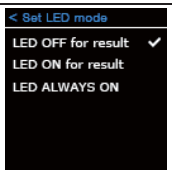
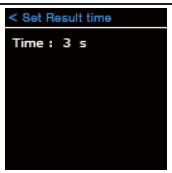
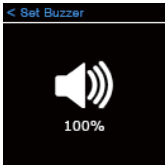
Menu Description

Press the button ▼ to enter menu mode.

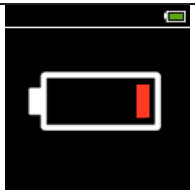
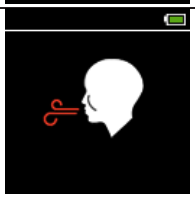
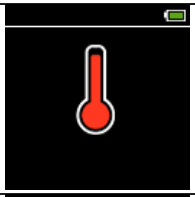
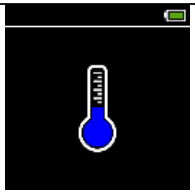
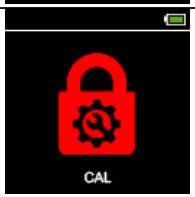
- Navigate upward with the button ▲, downward with the button ▼, and select with the button ⏻.

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.
• **Fail Level**		• **Check measurement alarm criteria** (Pass / Low Fail / High Fail)
• **Set Passive**		• **ON : Passive mode is ON (Using the Power Key during "BLOW" to do Passive test)** • **OFF: Passive mode is OFF (Using the Power Key during "BLOW" to do Passive test)**
• **Set Language**		• **Language** - Select the language you would like to use.

Menu Description

Menu items	Image	Description
• **Set Test mode**		• **Measurement mode settings** - Pass / Fail : Displays PASS or FAIL as detection mode - Digital Result : Displays measurement resultsnumerically in measurement mode
• **Set Display mode**		• **Display mode setting** - ON: Changes result background color (green 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 Messages (Operational)

Error image	Description
	**Calibration Required.** - Breathalyser requires calibration service.Contact info@breathalysers.co.za
	**Low battery warning** - The battery power is low. Please charge.
	**Breath sample error** - The breath sample was not enough. Please blow strong and steady during sampling.
	**High temperature error** - The device is inoperable above 55°C.
	**Low temperature error** - The device is inoperable below -15°C.
	**Calibration Lock** - The device is locked due to the calibration service required. Please contact info@breathalysers.co.za

Error Messages (Sensors)

Error image	Description
	**Pressure sensor error** - The pressure sensor is damaged. Please contact info@breathalysers.co.za
	**Alcohol sensor error** - The alcohol sensor is damaged. Please contact info@breathalysers.co.za

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	Pass / Fail : ✓ or X Digital result : Numerical display of measurement results * "MAX / ALCOHOL DETECTED" displayed above maximum reading value
	Buzzer sound	Zero: one short beep Low: a series of short beeps in a rapid sequence High: a long beep
Warm up time		within 10 seconds
Analysis time		within 1 second at 0.00 mg/L BrAC,at 24°C degrees
Maximum Tests per minute		12 times/ 1 minute
Operating temperature		-15°C to 55°C
Storage temperature		-20°C to 60°C
Mouthpiece		Replaceable "Blow cap" or "Blow Kit"
Auto power off		Adjustable from 30 to 900 seconds
Result display time		Adjustable from 1 to 9 seconds
Calibration period		Every 25,000 tests or 12 months (Default)
Measurement memory		Up to 5,000 Tests for Measurement Data
Additional features		Built-in Magnet
		Calibration Reminder & Grace period alert
		Calibration Protection
		Multilingual Language Support & Bluetooth pairing
		LED Indicator as a signal baton

Warranty

The manufacture and distributor guarantees that the product will be free from any defects in workmanship or materials (excluding calibration) when used normally for a period of six(6) months startingfrom the date of purchase.

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

Calibration Service

For calibration, training and technical support, please contact us at: info@breathalysers.co.za

Alcohol Breathalysers Pty Ltd Co. Reg. 2016/345956/07

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