rysflo

BREATH-BASED METABOLIC WELLNESS DEVICE

Rysflo Metabolism 1.0

User Manual & Instructions for Use

UM/RYSFLOMETABOLISM/01



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Everything you need to set up, use, and care for your Rysflo™ device.

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Instructions for Use

Rysflo™ is a handheld breath analysis device designed to measure specific breath biomarkers and provide metabolic wellness insights through the Rysflo mobile application. Please read this manual carefully before using the device and keep it for future reference.

What's in the Box

Your Rysflo™ package contains the following items:

NO.	COMPONENT	DESCRIPTION
1	**Rysflo Device**	Handheld breath analysis device used to perform breath measurements.
2	**Charging Dock with Cable**	Used to safely charge the Rysflo device.
3	**Travel Pouch**	Used to safely store and carry the Rysflo device.
4	**Rysflo App Start Guide**	Card containing QR codes to download the Rysflo mobile application and the Instructions for Use (IFU).



Rysflo Device



Charging Dock



Travel Pouch

fig 1 · Rysflo package contents

Before you begin: check that all items listed above are present in your package. If anything is missing or damaged, contact Humors Tech Pvt. Ltd. at connect@rysflo.com before using the device.

Device Description

Rysflo™ is a handheld electronic device designed to analyze exhaled breath and provide metabolic wellness insights through the Rysflo mobile application. It measures specific volatile organic compounds (VOCs) present in exhaled breath.

Measured Breath Biomarkers

BIOMARKER	DESCRIPTION
Acetone	Associated with fat metabolism and energy utilization.
Ethanol	Associated with metabolic and biochemical processes in the body.
Hydrogen	Associated with digestive activity and gut-related metabolic processes.

How It Works

- Rysflo measures the concentration patterns of these breath biomarkers using integrated sensors.
- The device transmits the breath data to the Rysflo mobile application via Bluetooth.
- The application processes the data and presents your metabolic wellness insights.

Device Dimensions and Weight

Device Height	111 mm
Device Width	44 mm
Device Weight	86 g
Dock Cable Length	1 m
Dock Cable Weight	63 g
Travel Pouch Size	82 × 148 mm

! **Note:** Rysflo™ is a wellness device. It is not a medical device and does not provide medical diagnoses.

Intended Use and User Population

Rysflo™ is intended for use by healthy adults seeking to monitor metabolic wellness through breath analysis. The device is designed for personal, non-clinical, indoor use only.

Intended User	Healthy adults (18 years and above) for personal wellness monitoring. Personal wellness
Not intended for	Children, individuals with respiratory conditions, or for clinical diagnostic purposes. This device is not a medical device and does not provide medical diagnoses. Not a medical device

! **Consult your doctor** before using this device if you have any existing medical condition or health concern.

Device Components



Power Button
Used to switch the Rysflo device ON or OFF, and to reset the device.

Breath Inlet
Opening where the user exhales breath into the device during measurement.

LED Indicator
Displays device status such as power, connection, measurement, battery level, and error conditions.

Charging Contacts
Located at the bottom of the device, used to charge the device through the charging dock.

Air Exhaust Vent
Allows airflow to exit the device during operation. Do not block this vent.

fig 2 · Rysflo Device

LED Indicator Guide

Rysflo™ uses LED lights to indicate device status and operating conditions. The LED color and behavior tell you what the device is doing at a glance.

Device LED Indicators

LED COLOR	BEHAVIOR	DEVICE STATUS	DESCRIPTION
Blue	Solid	**Device Power ON**	Appears when the device switches ON. The device is starting and ready for operation.
Green	Blinks ×2, then solid	**Connected to Rysflo App**	The device is successfully connected to the Rysflo mobile app and is ready to start.
Blue	Solid	**Measurement in Progress**	The device is performing a breath measurement.
Blue	Breathing	**Charging in Progress**	The device is on the dock and charging. Battery is filling.
Green	Breathing	**Charging — Almost Full**	Charging is nearly complete; the device is finishing and verifying full charge.
Green	Solid	**Fully Charged**	The battery is fully charged and verified.
Red	Breathing (slow fade)	**Low Battery**	The battery level is low. Please charge the device soon. You can still finish the current test.
Red	Slow glow ON / OFF	**Critical Battery Level**	The battery is too low to operate. Immediate charging is required.
Red	Solid	**Reading Failure**	The breath reading was not successful. Follow the app instructions and retry.
Red	Solid	**Device Fault or Error**	A device fault or internal error. Restart the device; if it continues, contact support.

Battery and Charging Information

Rysflo™ contains a built-in rechargeable Nickel-Metal Hydride (NiMH) battery designed to support normal device operation.

Charging Dock Indicator

DOCK LIGHT	BEHAVIOR	CHARGING STATUS	DESCRIPTION
Red Dot	Solid	**Charging in Progress**	Indicates that the Rysflo device is currently charging.
No Light	OFF	**Fully Charged**	Indicates that the device is fully charged.

Battery Specifications

Battery Type	Rechargeable Nickel-Metal Hydride (NiMH)
Battery Configuration	2-cell battery pack
Battery Capacity	750 mAh
Nominal Voltage	2.4 V DC
Charging Method	Charging dock with attached cable
Charging Input	5 V DC via charging dock
Charging Time	Couple of hours
Battery Replacement	Battery is not user-replaceable

Note: The power adapter is not supplied with the Rysflo device.

Charging Adapter Requirements

Use a compatible USB power adapter that meets the following requirements.

Power Source	USB power adapter
Output Voltage	5 V DC
Output Current	2 A
Safety Certification	Adapter should preferably be UL certified or equivalent safety certified
Charging Dock	Use only the charging dock and cable supplied by Humors Tech Pvt. Ltd.

Charging Safety Instructions

- Use only the provided charging dock and cable supplied by Humors Tech Pvt. Ltd.
- Use a USB power adapter that is preferably UL certified or safety certified.
- Do not use the device while it is placed in the charging dock.
- Always remove the device from the charging dock before performing a breath measurement.
- Do not use damaged charging adapters or cables.
- Charge the device indoors in a dry and safe environment.

! **First use or long inactivity:** when using the device for the first time, or after a long period of inactivity (e.g. one month or more), fully charge the device before use. Simply place it in the charging dock — it will switch ON automatically and begin charging.

Battery Status Indicator

Rysflo™ indicates battery status through both the device LED indicator and the Rysflo mobile application.

Device Battery Status Indicators

LED COLOR	BEHAVIOR	BATTERY STATUS	DESCRIPTION / USER ACTION
Red	Breathing (slow fade)	**Low Battery**	Battery is getting low. The device still operates. Charge the device soon.
Red	Slow glow ON / OFF	**Critical Battery Level**	Battery extremely low. Breath measurement is not allowed. Charge immediately.
No Red Light	Normal operation	**Sufficient Battery**	Battery is sufficient for normal operation. No action required.

Mobile Application Battery Status Indicator

APP INDICATOR	BATTERY STATUS	DESCRIPTION	USER ACTION
Popup message "Low Battery — Charging Required"	**Critical Battery Level**	When the battery becomes extremely low, the Rysflo mobile application displays a popup message. The application will not allow the user to perform a breath measurement until the device is charged.	Charge the device using the charging dock before performing a reading.

Charging Procedure

Rysflo™ must be charged using the provided charging dock and cable connected to a compatible USB power adapter. Fully charge the device before first use, or after one month or more of inactivity, to ensure optimal performance.

Steps to Charge the Rysflo Device

1. Connect the charging dock cable to a USB power adapter (5 V DC, minimum 2 A).
2. Plug the USB power adapter into a power outlet.
3. Place the Rysflo device into the charging dock properly.
4. Ensure the device is seated correctly in the dock.
5. Verify that the Red Dot indicator on the dock turns ON, indicating charging has started.
6. Allow the device to charge until the dock indicator light turns OFF, indicating full charge.

Automatic Power ON on the Dock

- When you place the device on the charging dock, it automatically switches ON.
- The device LED indicates the charging state: **Blue breathing** while charging, **Green breathing** when almost full, and **Solid Green** when fully charged.
- You can connect the Rysflo mobile app while the device is charging to check the battery level.
- When you remove (undock) the device, it automatically returns to idle/standby mode.

! **Note:** a breath test cannot be performed while the device is on the dock. Remove the device from the dock before performing a measurement.

How to Perform a Breath Test

Rysflo™ performs breath measurements through guided instructions provided in the Rysflo mobile application.

Before Performing the Test

Indoor Ventilated Environment	Perform the test in a clean, indoor, and well-ventilated environment.
Charge Device	Ensure the Rysflo device has sufficient battery before performing the test.
Install and Open App	Install and open the Rysflo mobile application using the QR code provided in the Rysflo App Start Guide.
Enable Bluetooth	Ensure Bluetooth is enabled on your mobile device.
Sit and Relax	Sit in one place for 5–10 minutes and relax before starting the breath test.

Steps to Perform the Breath Test

1. Press the power button (short press) to switch ON the Rysflo device.
2. Verify that the Blue LED appears, indicating the device is powered ON.
3. Open the Rysflo mobile application.
4. Connect the Rysflo device to the mobile application via Bluetooth.
5. Follow the breathing instructions displayed in the mobile application.
6. Exhale into the Rysflo device as instructed by the application.
7. Keep the device steady during the measurement.
8. Wait for the measurement to complete and view the results in the mobile application.

Power Management & Measurement Tips

Rysflo™ manages its power automatically to conserve battery between measurements.

Automatic Power OFF

After Measurement	The Rysflo device automatically switches OFF after completing the breath measurement.
No App Connection (30 seconds)	If the device is not connected to the Rysflo mobile application within 30 seconds of being powered ON, it automatically enters idle/standby mode to conserve battery.

Manual Reset and Power Control

Power ON	Press the power button once (short press). The Blue LED will appear indicating the device is ON.
Hard Reset	Press and hold the power button for 2 seconds to reset the device.

Important Instructions During Measurement

Follow App Guidance	Always follow the breathing instructions provided in the mobile application.
Keep Device Steady	Do not move the device during measurement.
Do Not Block Air Vent	Ensure the air exhaust vent is not blocked.
Repeat if Needed	If a reading fails, follow the instructions in the app and repeat the test.

Firmware Update (Over-the-Air)

Rysflo™ can update its device firmware wirelessly through the Rysflo mobile application. When an update is available, the app will recommend updating the device. Follow these steps:

1. When the app recommends a firmware update, place the Rysflo device on the charging dock. The device must remain on the dock for the entire update.
2. In the Rysflo app, press **"Start Firmware Upgrade."**
3. The device enters update mode. The upgrade takes a few minutes — do not remove the device from the dock and do not close the app during this time.
4. When the upgrade is complete, the device automatically reboots.
5. The app displays a confirmation that the firmware upgrade was successful.

! **Important:** keep the device on the dock and the app open until the app confirms the update is complete. Removing the device or closing the app during the update may interrupt it — if this happens, re-dock the device and start the firmware upgrade again.

Safety Instructions and Warnings

Read and follow all safety instructions before using Rysflo™ to ensure safe and proper operation.

General Safety Instructions

Intended Use	Use Rysflo only as described in this manual and the Rysflo mobile application. Not intended for persons with an existing medical condition (diabetes, metabolic disorder, lung disease) — consult your physician first.
Indoor Use Only	Use the device only in indoor environments.
Keep Device Dry	Do not expose the device to water, liquids, or excessive moisture.
Avoid Physical Damage	Do not drop, crush, or apply excessive force to the device.
Do Not Disassemble	Do not open or disassemble the device. There are no user-serviceable parts inside.

Battery and Charging Safety

Do Not Use While Charging	Do not use the device while it is placed in the charging dock. Charge only using the dock and cable provided by Humors Tech Pvt. Ltd.
Avoid Heat Exposure	Do not expose the device to high temperatures or direct sunlight.
Do Not Damage Battery	Do not puncture, crush, or expose the device to fire.
Non-Replaceable Battery	The Rysflo™ device contains a built-in rechargeable battery that is not user-replaceable.
Battery Service	If a significant reduction in battery runtime is observed over time, please contact Humors Tech Pvt. Ltd. for device service or replacement.
Do Not Attempt Replacement	Do not attempt to open the device or replace the battery yourself. This may damage the device and void the warranty.

RF Exposure & Proper Use Warnings

Additional safety information about radio-frequency exposure and correct use of the device.

RF Exposure and Medical Device Interference

Pacemakers	Maintain at least 15 cm (6 in) separation between Rysflo™ and a pacemaker or implanted device.
Other Medical Devices	Consult the device manufacturer or your physician to confirm adequate RF shielding before using Rysflo™.
RF Signals	Certain electronic equipment may not be shielded against RF signals emitted by Rysflo™'s Bluetooth module.

Proper Use and Misuse Warning

Mouthpiece Use Only	When performing a breath measurement, insert only the breath inlet into your mouth. Do not insert it into any other bodily orifice.
Do Not Use for Inhalation	Do not use Rysflo™ to inhale any substance, narcotic, vapor, or otherwise. It is intended only for normal exhaled-breath analysis.

! **Note:** Rysflo™ is for personal use — avoid sharing the device or mouthpiece between users. Keep the mouthpiece cap away from children and pets when removed, to prevent a choking hazard.

Device Handling, Storage & Support

Careful handling and storage keep your Rysflo™ device performing reliably.

Device Handling and Storage

Proper Storage	Store the device in a clean and dry place.
Avoid Extreme Conditions	Do not expose the device to extreme temperature or humidity, or leave it in a parked vehicle for prolonged periods.
Use Travel Pouch	Use the provided travel pouch to protect the device during transport.

Service and Support

No User-Serviceable Parts	Do not attempt to repair the device yourself.
Contact Manufacturer	Contact Humors Tech Pvt. Ltd. support for any service or repair needs.

i **Battery note:** the battery inside Rysflo™ is not user-replaceable. If you notice a significant decrease in battery runtime, contact Humors Tech Pvt. Ltd. for service.

Cleaning and Maintenance Instructions

Regular cleaning and proper maintenance help ensure safe operation and reliable performance of the Rysflo™ device.

Cleaning Instructions

External Cleaning	Clean the outer surface of the Rysflo device using a soft, dry cloth.
Avoid Liquid Entry	Do not allow liquids to enter the breath inlet, air vent, or charging contacts.
Do Not Immerse	Do not immerse the device in water or any liquid.
Do Not Spray	Do not spray cleaning liquid onto the device.

Maintenance Instructions

No User-Serviceable Parts	The Rysflo device does not contain any user-serviceable parts.
Do Not Open Device	Do not open or attempt to disassemble the device.
Protect from Damage	Avoid dropping or exposing the device to physical impact.
Proper Storage	Store the device in a clean, dry environment when not in use.
Use Travel Pouch	Use the provided travel pouch to protect the device during transport and storage.

Storage and Transport Instructions

Proper storage and transport of the Rysflo™ device help maintain device performance and extend its service life.

Storage Conditions

Operating Temperature	10 °C to 40 °C
Storage Temperature	0 °C to 45 °C
Storage Humidity	Up to 90% non-condensing
Storage Environment	Clean, dry, indoor environment
Protection	Store the device in the provided travel pouch when not in use

Storage Instructions

Clean Before Storage	Ensure the device is clean and dry before storing.
Avoid Moisture	Do not store the device in humid or wet environments.
Avoid Direct Sunlight	Do not expose the device to direct sunlight for extended periods.
Avoid Extreme Temperatures	Do not store the device in extremely hot or cold locations.
Safe Placement	Store the device in a safe location to prevent accidental damage.

Transport Instructions

Follow these guidelines whenever you carry or ship your Rysflo™ device.

Use Travel Pouch	Always use the provided travel pouch during transport.
Avoid Physical Impact	Protect the device from drops, vibration, or mechanical shock.
Avoid Harsh Conditions	Do not expose the device to excessive heat, cold, or moisture during transport.
Power OFF During Transport	Ensure the device is switched OFF before transport.

Tip: the travel pouch included in your Rysflo™ package is designed to protect the device from everyday knocks and dust — keep the device in it whenever it's not in use.

Manufacturer Information and Support

Rysflo™ is manufactured and supported by Humors Tech Pvt. Ltd.

Manufacturer Details

Manufacturer Name	Humors Tech Pvt. Ltd.
Product Name	Rysflo Metabolism
Model	Rysflo 1.0
Country of Manufacture	India
Intended Use	Breath-based metabolic wellness device for indoor use

Customer Support

For technical support, service, or product-related inquiries, please contact:

Website	**www.rysflo.com**
Email	**support@rysflo.com**
Support Availability	**Contact via email for assistance, service, or replacement requests**

Service and Repair

To keep your warranty valid and your device safe, all service must go through the manufacturer.

Authorized Service Only	Device service and repair must be performed only by Humors Tech Pvt. Ltd. or authorized personnel.
Do Not Attempt Repair	Do not attempt to open, repair, or modify the device.
Battery Service	If battery performance significantly decreases, contact Humors Tech Pvt. Ltd. for service or replacement.

Usage Notices

Proper Use	Use the device only as described in this manual.
Safety Compliance	Follow all safety instructions to ensure safe and proper operation.

FCC Compliance Statement

Rysflo™ Metabolism 1.0 has been tested and evaluated for compliance with the applicable requirements of Part 15 of the FCC Rules (47 CFR Part 15).

FCC Notice

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.

Class B Digital Device Notice

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. If this equipment does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more 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 that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio Module Certification

Bluetooth Module	**Ai-Thinker PB-03 (Bluetooth Low Energy)**
Transmitter Module FCC ID	**2ATPO-PB03**

! **Modifications:** changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Environmental Compliance & Markings

RoHS	Assembled using components that comply with the Restriction of Hazardous Substances (RoHS) requirements, restricting lead, mercury, cadmium, and other designated hazardous substances.
WEEE	The device and its packaging carry the WEEE marking — dispose of through designated e-waste points, not household waste.
Recycling Symbol	Indicates that the packaging materials are recyclable.

Troubleshooting, Warranty, Return and Refund Policy

For troubleshooting assistance, warranty information, return policy, and refund policy, please refer to the official Rysflo support pages available online. These pages provide the latest and most accurate information regarding device usage, support, service, and applicable policies.

Guide	Troubleshooting Guide	connect@rysflo.com
Policy	Warranty Policy	rysflo.com/m/warranty
Policy	Return and Refund Policy	rysflo.com/m/return&refundpolicy

i Alternatively, you may scan the QR code provided in the **Rysflo App Start Guide** to access these resources.

Additional Support

Website	www.rysflo.com
Email	connect@rysflo.com

Device Symbols

The following symbols may appear on the Rysflo™ device, packaging, or accompanying documentation.

SYMBOL	NAME	MEANING
SN	**Serial Number (SN)**	Identifies the product's unique serial number.
	Manufacturer	Indicates the legal manufacturer of the device.
	Disposal (WEEE)	Device must not be disposed of with household waste — recycle through designated e-waste collection points (WEEE Directive). See the FCC Compliance Statement for details.
Ni-MH	**Battery Chemistry (Ni-MH)**	Indicates the battery type used in the device — Nickel-Metal Hydride (Ni-MH) — for recycling and safety identification.
⎓	**Direct Current (DC) Input**	Indicates the device and dock operate on direct current (DC) power, as shown next to the input power rating on the dock label.

Safety Warnings and Cautions

Read all warnings and cautions before using the Rysflo™ device. Failure to observe these notices may result in injury or device damage.

WARNING — Indicates a potentially hazardous situation which, if not avoided, may result in personal injury or device damage.

CAUTION — Indicates important information that must be followed to ensure correct and safe use of the device.

NOTE — Indicates supplementary information that may be helpful to the user.

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Humors Tech Pvt. Ltd. reserves the right to make changes to the product and this document without prior notice.

Manufacturer Responsibility and Disclaimer

Humors Tech Pvt. Ltd. is responsible for the safety, performance, and reliability of the Rysflo™ device only if:

- The device is used in accordance with the instructions provided in this manual.
- The device is not modified, altered, or repaired by unauthorized personnel.
- Only approved accessories and charging components are used.

Humors Tech Pvt. Ltd. shall not be liable for any damage, malfunction, or injury resulting from:

- Improper use of the device
- Use outside the specified operating conditions
- Unauthorized modification or repair
- Use of unapproved accessories or charging equipment

! Rysflo™ is not a medical device. It is not designed or intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease. Results are for informational and lifestyle purposes only and do not replace professional medical advice or laboratory testing. Always consult a qualified healthcare professional for medical advice, diagnosis, or treatment regarding any health condition or concern. Do not use Rysflo™ as a substitute for professional medical advice or medical examination.