# SPICCO SI

### USER MANUAL



## INTENDED USE

Spirocco S1 is a portable, battery-powered spirometer for home and professional use that allows you to perform respiratory function tests. The device comes with the 'SPIROCCO' Android application, which is connected to the spirometer via Bluetooth connection. In the application, the user can start the lung function test, view and store the measured data. IMPORTANT! Home use of S1 spirometer is intended only for self monitoring. Interpretation of the results and diagnosis shall be done by a healthcare professional!

### PACKAGE CONTENTS







Charging cable

User Manual

### WARNINGS

- Only use the device for its intended purpose.
- Do not use the device while charging.
- Before charging make sure that the cable is in good condition.
- Take care of the device in accordance with the maintenance instructions.
- Do not use accessories not recommended for this device.
- The electronic unit is not waterproof. DO NOT immerse the device in water or other liquid, and do not keep it under running water!



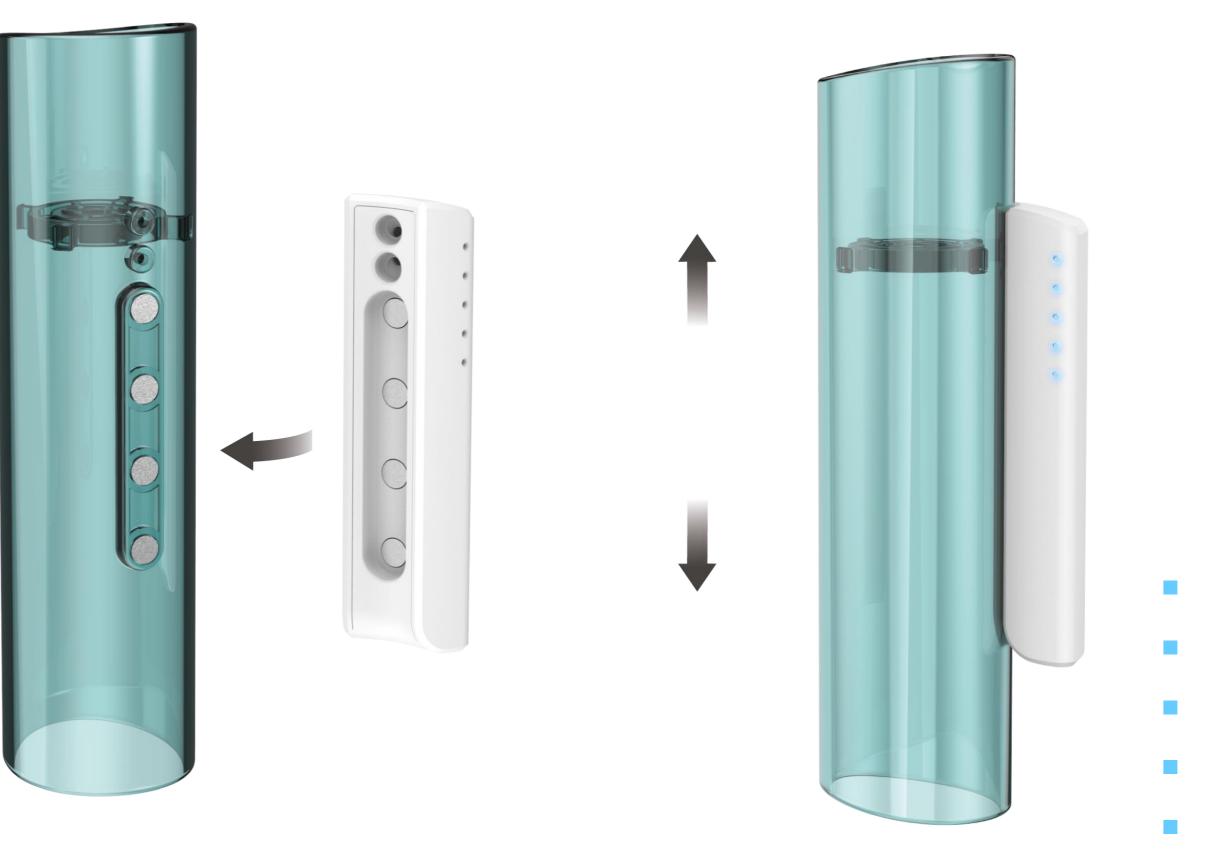
### INSTALLATION



Before the first use connet the cable and charge the electronic unit until all 5 LEDs are lit.

During charging the LEDs light up one after the other.

Attach the electronic unit to the flow pipe. The accurate positioning is aided by magnets.



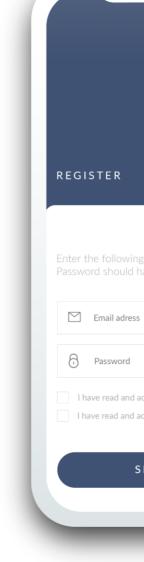
Check the battery charge level: shake the device, the number of LEDs lit on the side shows the charge level.

81 - 100 %
61-80 %
41-60%
21-40%
0-20%

### INSTALLATION







Download the SPIROCCO app from the Google Play Store.

Register and add the information requested to evaluate the spirometric measurements.

	spirocco
rmation to :	Sign in
it least 6 ch	Email adress
	Password
	Forgot Your Password?
Terms of Use Privacy Policy	SIGN IN
	Or
UP	f Login with Facebook
-	
	Don't have an account? <u>REGISTER</u>



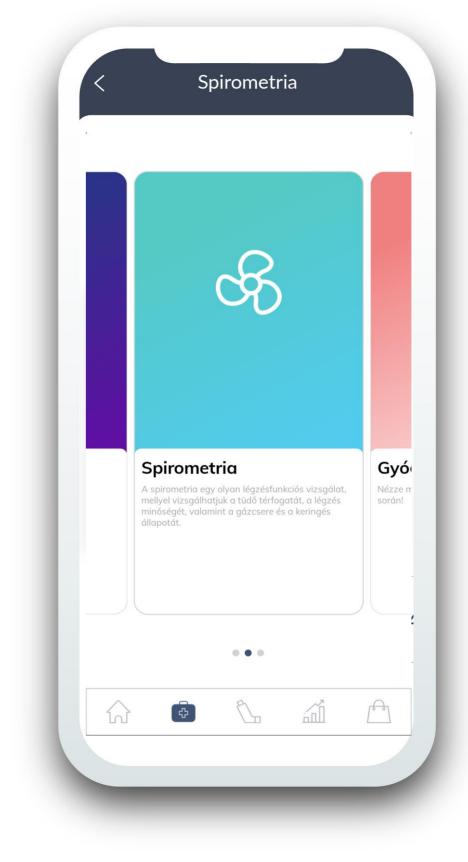
Pair the S1 spirometer to the application with the QR code according to the instructions. Make sure your phone has a Bluetooth connection enabled.

## PERFORMING A LUNG FUNCTION TEST



### Open the SPIROCCO app on your phone.

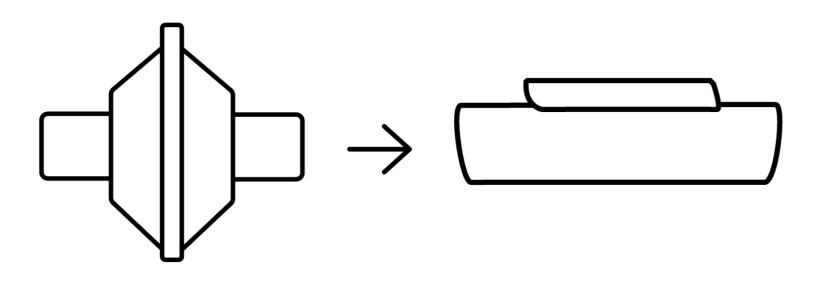




The device connects automatically. When connected, one LED on the side of the device lights up.

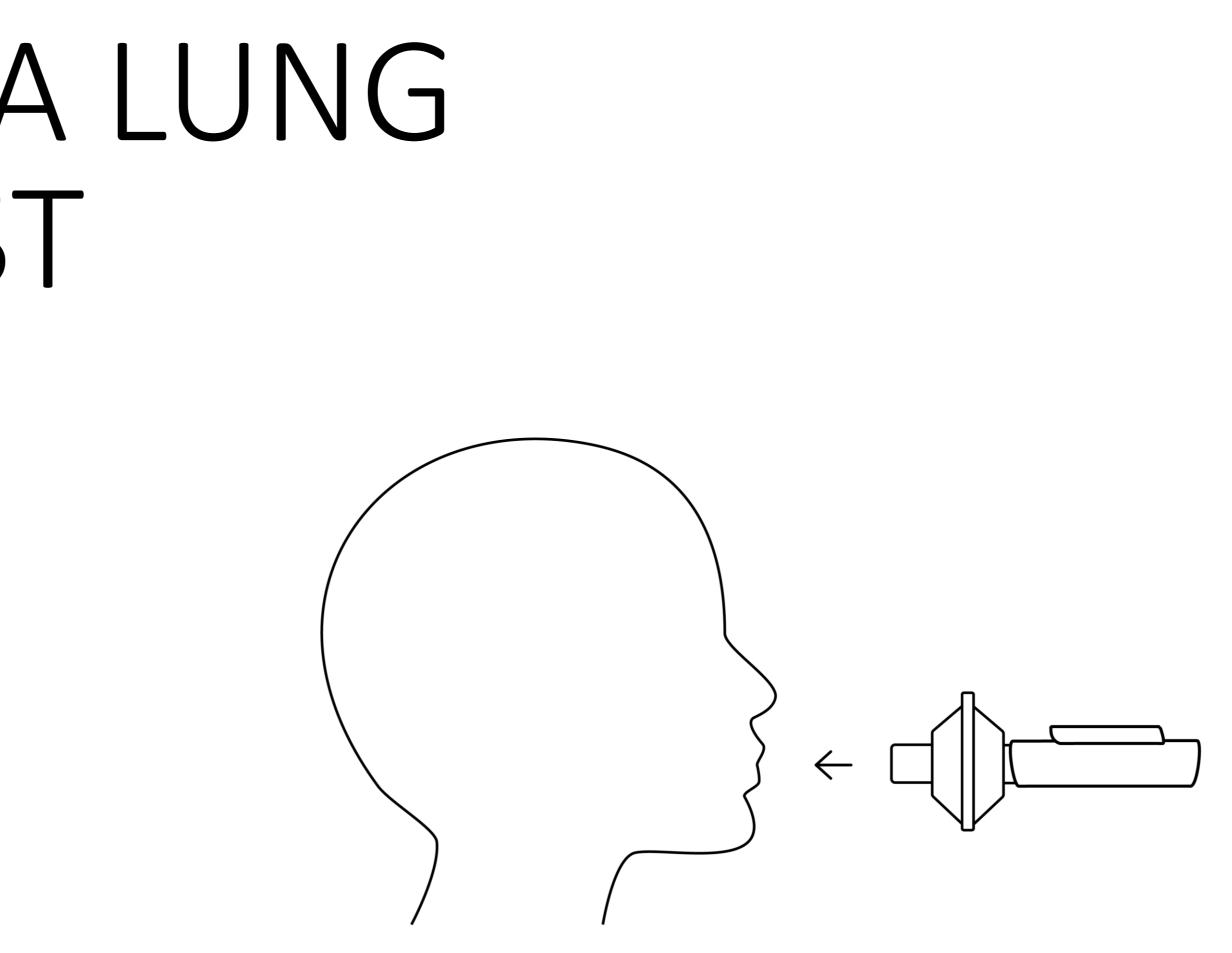
Start the spirometric measurement in the app.

### PERFORMING A LUNG FUNCTION TEST



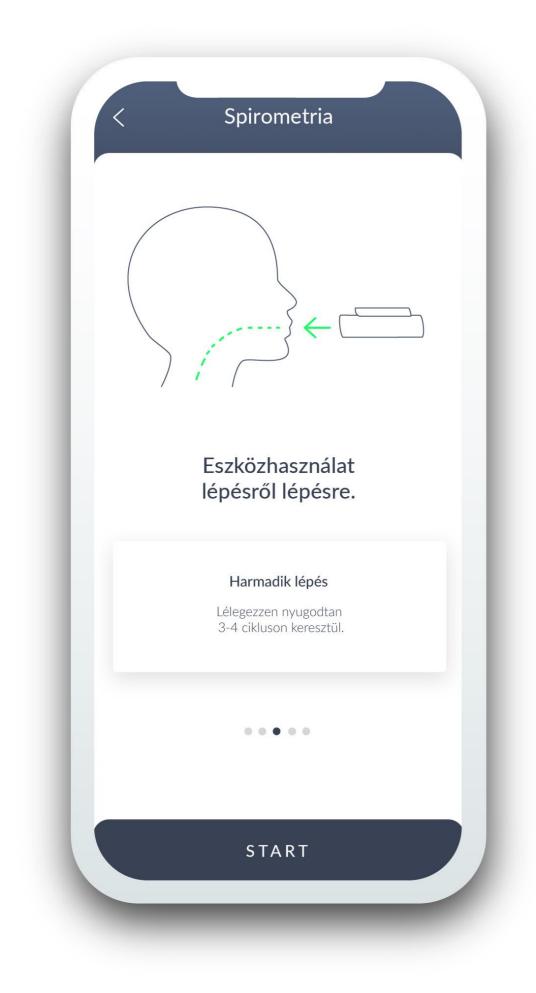
Always use a bacterial filter if the device not intended for single user only.

The Spirocco S1 spirometer is compatible with all standard 30 mm diameter bacterial virus (BV) filters. Recommended BV filter: Vitalograph BVF



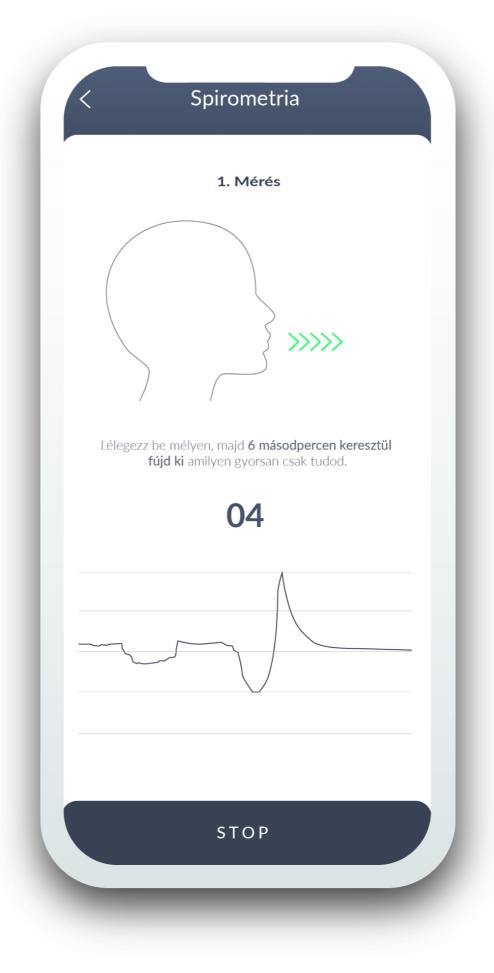
Note: the filter helps to avoid cross-contamination.

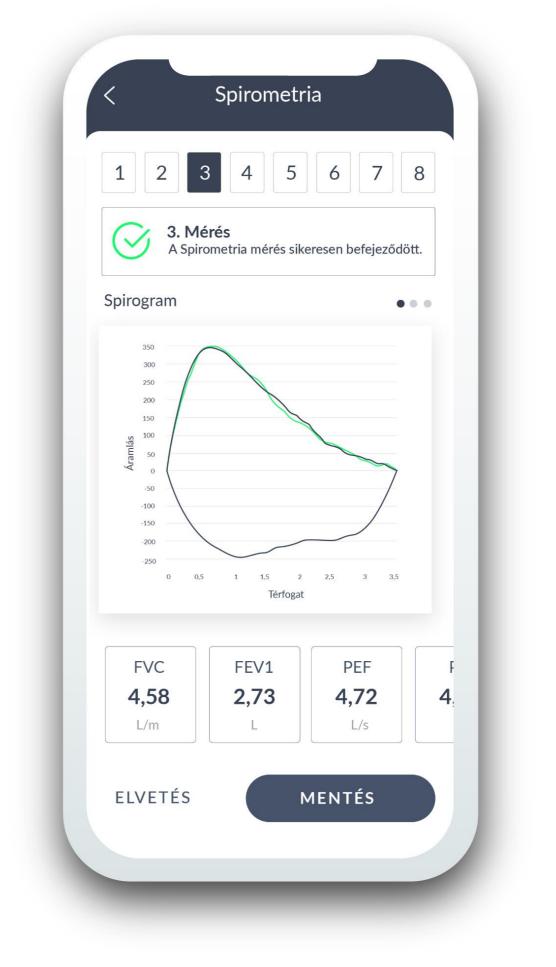
### PERFORMING A LUNG FUNCTION TEST



Read instructions the carefully before starting respiratory function the test.

built-in countdown The helps to maintain the minimum exhalation time.





Save the best maneuver. Up to 8 attempts can be made to achieve 3 valid measurements!

### SPECIFICATIONS

### Type

Size

Weight

Communication

**Operation principle** 

Volume flow range

Accuracy

**Operation temperature** 

Storage temperature

**Power supply** 

Charger

**Operation time** 

Lifetime

Standards

### Description

134 X 34 X 48 mm	( L X W X H)

80 g

Bluetooth Low Energy (BLE)

Differential pressure sensing

+ / - 14 L/s

+ / - 3%

 $0 - 40 \,{}^{0}\text{C}$ 

0 – 50 <sup>0</sup>C

3.7 V, 130mAh Li-ion battery

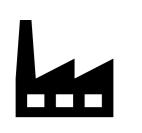
Micro-USB, 100 mA

### 6 hours

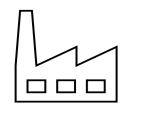
min. 300 charge cycles

MDR 2017/745, ISO 26782, ISO23747, IEC 60601-1, IEC 60601-1-2

## SYMBOLS AND LABEL



Name, address, contact details of the product manufacturer.



Date of manufacture in year / month format. yyyy/mm



Serial number



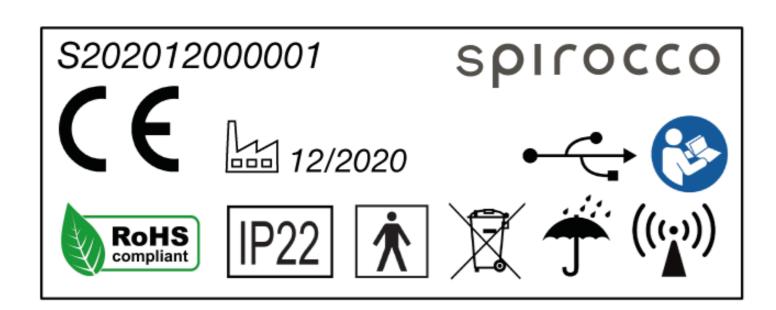
Item lot ID







### The label of the device





The product complies with the relevant legal requirements.



Complies with the RoHS Directive (2011/65 / EU).

Read the User Manual before use.

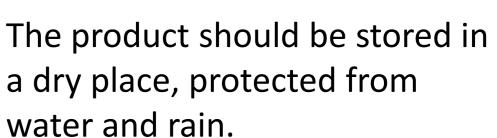


According to IEC 60601-1, the product and its components are of type BF.

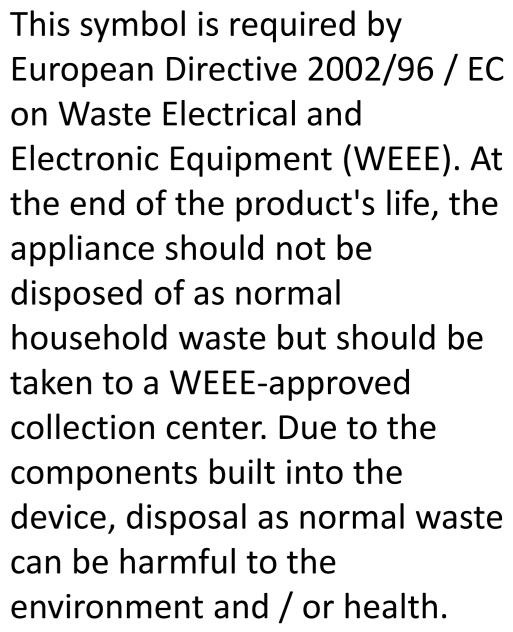








transmitter.



Charging connector: micro-USB IEC EN 60601-1-2: 2007 standard 5.1.1. Symbol corresponding to the section, the product also includes an RF

## MAINTENANCE, CLEANING, STORAGE

- environment.

### Always clean the flow tube and the electronic unit separately!

The flow tube can be disinfected with appropriate chemicals and used again after rinsing and drying. spirocco.com/cleaning



Store the device in a dry place. Keep the device away from heat sources. Do not expose the device to direct sunlight. Do not store or use the device in dusty

> The electronic unit can be cleaned with an alcohol based cleaner. Use only a microfiber cloth for cleaning!

## TROUBLESHOOTING

Problem description	Possible cause	Troubleshooting
The device does not connect to the mobile phone application.	Bluetooth is not enabled on your phone.	Enable Bluetooth connection in the settings menu of your phone.
The device cannot be connected to the phone.	The battery of the device is discharged or the device is out of range of your phone's Bluetooth connection.	Charge the device and place it within 3 meters from your phone.
The application crashes.	The application is in an incorrect state.	Update and restart the application.
The device does not charge.	The charging cable is damaged.	Replace the charging cable.

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## WARRANTY, CONTACT

SPIROCCO warrants the original purchaser that the product shall be free from defects in materials and workmanship under normal use for a period of 1 year. The warranty does not cover the battery, packaging and damage resulting from improper use of the device. For general, technical and warranty related questions please contact SPIROCCO.

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