

# CardioWatch 287-1B Bracelet & Corsano Trials App Instruction Manual

## **1** Table of Contents

2	IN	ITRODUCTION
3	S/ 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	AFETY INSTRUCTIONS
4	S	(MBOLS
5	C	ONTENTS / PRODUCT INCLUDES
6	K 6.1 6.2 6.3	NOW YOUR BRACELET 10   Front of the bracelet 10   Back and bottom of the bracelet 10   Charging the bracelet 11
7	U 7.1 7.2 7.3 7.4 7.5	SING YOUR BRACELET WITH A SMART DEVICE 13   Download and install the free "Corsano Trials" app onto your smart device. 13   First time use. 13   Pairing Your Bracelet with a Smart Device 18   Troubleshooting the Bluetooth Connection 21   Troubleshooting the Cloud Connection 22
8	Ν	ON-MEDICAL INFORMATION23
9	н	EALTH APP AND GOOGLE FIT INTEGRATION28
1(	0	CLINICAL PERFORMANCE
1: 1:		SPECIFICATION
13	3	DISPOSAL OF THE DEVICE
14	4	CORSANO CONTACT INFORMATION

## 2 INTRODUCTION

Thank you for purchasing the Corsano CardioWatch 287-1B. The CardioWatch bracelet records raw PPG and ACC data, which is transferred to the application and cloud.

Irregular heartbeats (e.g. extrasystoles) and atrial fibrillation can only be diagnosed in accordance with the guidelines with an ECG of the thoracic wall, generally carried out by cardiologists.

If you are feeling unwell or experience other troubling symptoms, please seek medical advice immediately.

## 3 SAFETY INSTRUCTIONS

This instruction manual provides you with important information about the Corsano CardioWatch 287-1B Bracelet. To ensure the safe and proper use of this bracelet, READ and UNDERSTAND all of the safety and operating instructions. If you do not understand these instructions or have any questions, contact support@corsano.com before attempting to use this bracelet. For specific information about your own heartbeats, consult with your physician.

### 3.1 Intended Use

This device is a digital bracelet intended for use in measuring pulse rate and activity in adult patient population.

Environments of Use: Hospital and Home Patient Population: Adult

### 3.2 Receiving and Inspection

Remove this bracelet and other components from the packaging and inspect for damage. If this bracelet or any other components is damaged, DO NOT USE and contact <a href="mailto:support@corsano.com">support@corsano.com</a>

Read the Important Safety Information in this instruction manual before using this bracelet. Follow this instruction manual thoroughly for your safety.

Keep for future reference. For specific information about your own heartbeats, CONSULT WITH YOUR PHYSICIAN.

- DO NOT use this bracelet on infants, toddlers, children or persons who cannot express themselves.
- DO NOT adjust medication based on readings from this bracelet. Take medication as

prescribed by your physician. ONLY a physician is qualified to diagnose and treat high or irregular heartbeats.

- DO NOT use this bracelet on an injured arm or an arm under medical treatment.
- DO NOT use this bracelet in areas containing high frequency (HF) surgical equipment, magnetic resonance imaging (MRI) equipment, computerized tomography (CT) scanners. This may result in incorrect operation of the bracelet and/or cause an inaccurate reading.
- DO NOT take recordings in close vicinity to strong electromagnetic fields (e.g. electromagnetic anti-theft systems, metal detectors).
- DO NOT use this bracelet in oxygen rich environments or near flammable gas.
- Consult with your physician before using this bracelet if you have common arrhythmias such as atrial or ventricular premature beats or atrial fibrillation; arterial sclerosis; poor perfusion; diabetes; pregnancy; pre-eclampsia or renal disease. NOTE that any of these conditions in addition to patient motion, trembling, or shivering may affect the measurement reading.
- NEVER diagnose or treat yourself based on your readings. ALWAYS consult with your physician.
- To help avoid strangulation, keep the charger cable away from infants, toddlers or children.
- This product contains small parts that may cause a choking hazard if swallowed by infants, toddlers or children.

### 3.3 Data Transmission

This product emits radio frequencies (RF) in the 2.4 GHz band. DO NOT use this product in locations where RF is restricted, such as on an aircraft or in hospitals. Turn off the Bluetooth® feature in this bracelet and remove batteries and/or unplug the charger when in RF restricted areas. For further information on potential restrictions refer to documentation on the Bluetooth usage by the FCC.

### 3.4 Handling and Usage

- Stop using this bracelet and consult with your physician if you experience skin irritation or discomfort.
- Consult with your physician before using this bracelet on an arm where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present because of temporary interference to blood flow, which could result in injury.
- Consult with your physician before using this bracelet if you have severe blood flow problems or blood disorders.
- DO NOT use this bracelet for any purpose other than measuring heartbeats.
- During measurement, make sure that no mobile device or any other electrical device that emits electromagnetic fields is within 12 inches (30 cm) of this bracelet. This may result in incorrect operation of the bracelet and/or cause an inaccurate reading.
- DO NOT disassemble or attempt to repair this bracelet or other components. This may cause an inaccurate reading.
- DO NOT drop or subject this bracelet to strong shocks or vibrations.
- DO NOT use this bracelet with other medical electrical (ME) equipment simultaneously. This may result in incorrect operation of the bracelet and/or cause an inaccurate reading.
- Ensure that this bracelet has acclimated to room temperature before taking a measurement. Taking a measurement after an extreme temperature change could lead to an inaccurate reading.
- Ensure the bracelet is well adjusted on the wrist to have the best performance of the heart rate sensor, and not too tight to avoid skin injuries
- 3.5 Charger Handling and Usage
- USE the charger cable with a CE marked adapter with the following characteristics:
  - o Input voltage: 100/240 V 50hz 60hz
  - Output voltage: DC 5V (+-5%)
  - Maximum current: 500 mA
- DO NOT use the charger if this bracelet or the charger cable is damaged. If this bracelet or the cable is damaged, unplug the charger immediately.
- Plug the charger into the appropriate USB outlet. DO NOT use in a multi-outlet plug.
- NEVER plug in or unplug the charger from the electric outlet with wet hands.
- DO NOT disassemble or attempt to repair the charger.



- Fully insert the USB plug at the end of the charger into the USB outlet.
- When unplugging the charger from the outlet, be sure to safely pull from the USB outlet. DO NOT pull from the charger cable.
- When handling the charger cable:

DO NOT damage it. DO NOT break it. DO NOT tamper with it. DO NOT forcibly bend or pull it. DO NOT twist it. DO NOT use it if it is gathered in a bundle. DO NOT pinch it. DO NOT place it under heavy objects.

- Wipe any dust off of the charger.
- Unplug the charger when not in use.
- Unplug the charger before cleaning this bracelet.

#### 3.6 Warnings

Regardless of the measurement taken using this device, you should immediately consult your practitioner when you experience symptoms that could indicate a disease, such as chest pain, pressure, tightness, etc.

You may be experiencing a cardiac arrhythmia or other disease even in the absence of a notification from the APP. You should notify your practitioner at any changes of your health condition.

If a serious incident occurs in relation to the device, it must be reported to the manufacturer and the competent authority.

#### 3.7 Residual risks

In rare cases, the device may detect arrhythmia while you experienced no cardiac problems. You should contact your practitioner to get a diagnostics confirmation.

#### 3.8 Clinical benefit

The CardioWatch 287-1B provides a non-invasive and comfortable solution to continuously and accurately monitor vital signs and enables off-line analysis and screening of cardiac arrhythmia (AFib for instance) by third-party medial applications.

#### 3.9 Cleaning and service life

Use a lint-free cloth moistened with warm water to clean the housing and casing of your device.



Use warm water and hypoallergenic soap to clean the strap. Dry the wrist band with a soft cloth. It is not necessary to sterilize the device.

The Smartwatch is an electronic device with rechargeable battery. The expected service life is 5 years.

# 4 <u>SYMBOLS</u>

These instructions for use contain the following symbols (color and size may vary):

Symbol	Meaning
<b>CE</b> <sub>1912</sub>	This stand-alone software is a medical device classified as risk category IIa, in accordance with rule 10 of EU Directive 93/42/EEC, last amended by 2007/47/EC of the European Parliament and Council of 5 September 2007.
	Indicates the medical device manufacturer
	Warning Indicates the need for the user to consult the instructions for use for important information such as warnings and cautions. A warning is always related to safety.
i	Note Indicates the need for the user to consult the instructions for use
×	Applied Part TYPE BF Applied Part (IEC 60417-5333)
REF	Indicates the manufacturer's catalogue number so the medical device can be identified
SN	Indicates the manufacturer's serial number so that a specific medical device can be identified
CE	CE marking indicates that a product complies with applicable European Union regulations
FC	FCC marking indicates the electronic device, which sold in the United States, is certified and the electromagnetic interference from the device is under the limits that are approved by Federal Communications Commission
	Indicates a product should not be disposed of in a landfill; the black bar indicates that the equipment was manufactured after 2005

## 5 CONTENTS / PRODUCT INCLUDES

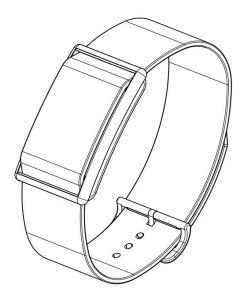


Figure 1 -Bracelet (CS-287-1B)



Figure 2 - Charger (CS-287CH-1)

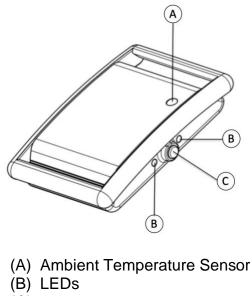


Figure 3 - Instruction Manual (CS-287IFUEN-1)



## 6 KNOW YOUR BRACELET

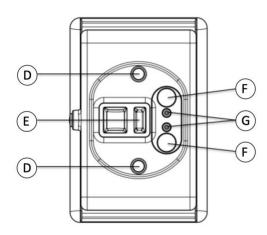
### 6.1 Front of the bracelet



(C) Pusher button

Figure 4 – Front view of Bracelet

### 6.2 Back and bottom of the bracelet



- (D) Temperature Sensors
- (E) PPG Sensor
- (F) Magnets
- (G) Charge Contacts

Figure 5 – Back view of Bracelet

### 6.3 Charging the bracelet

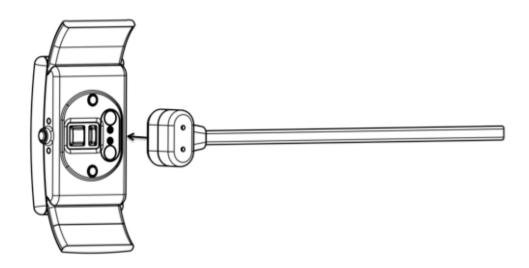


Figure 6 – Charging view

Attach the charger cable to the backside of the bracelet. The magnets will pull the charger head to the bracelet.

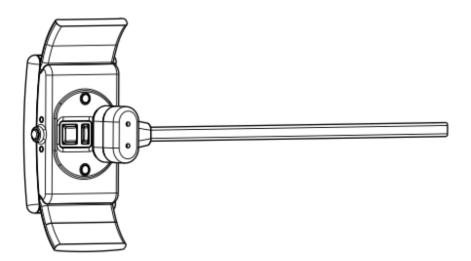
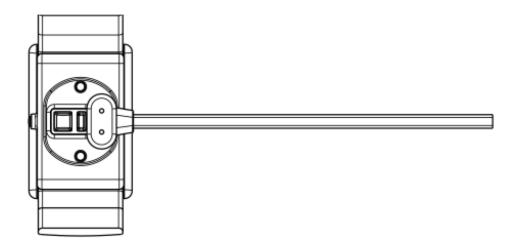


Figure 7 – Charging view – charger attached

The Magnets will click the charger into position. The LEDS will light up to indicate that charging has started.

While charging, the Bracelet will not perform any measurement.



*Figure 8 – Charging view – charger attached #2* 

The polarity of the magnets in the bracelet and the charger will ensure that the charger contacts will align.

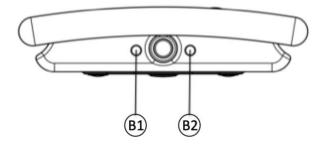


Figure 9 – Bracelet side view

LED	Pattern	State	
Green (B1)	Flashing	Bracelet charging	
Green (B1)	OFF	Bracelet fully charged or not on charger	
Orange (B2)	Flashing for 5 sec	After the pusher is pressed, when the Bracelet is looking for the Bluetooth Low Energy connection	
Orange (B2)	ON for 5 seconds	After the pusher is pressed, when the Bracelet is connected to a smartphone	
Orange (B2)	ON for 10 seconds	After a successful pairing with the APP.	

When the bracelet is close to the end of its battery autonomy, the user gets a notification through the mobile APP (20% remaining).

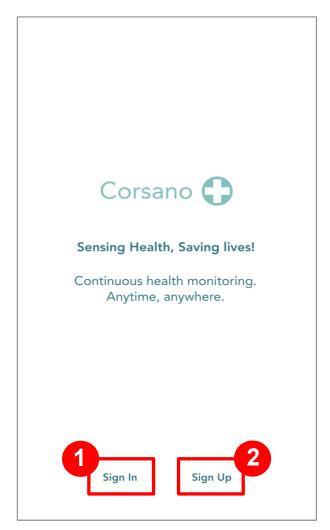
## 7 USING YOUR BRACELET WITH A SMART DEVICE

7.1 Download and install the free "Corsano Trials" app onto your smart device.



### 7.2 First time use

Select Sign Up (2) to create your account. If you have an account, select Sign In (1)





### Sign Up

🔻 🖌 🛢 12:30
ស៊្វ៍ Sign Up
Email Address
First Name
Last Name
I agree to the <b>Terms of Service</b> and <b>Privacy Policy</b>
Sign Up
Cannot Sign Up? Email support

Enter your Email Address, First Name and Last Name. Agree to Terms of Service and Privacy Policy. Press the Sign Up button

🔻 🖌 🗖 12:3
Corsano 🛟
Sensing Health, Saving lives!
Continuous health monitoring. Anytime, anywhere.
Welcome!
Hi, <b>Peter Stas</b> . Your account has been successfully created. Please list your name and create a password to continue.
Peter
Stas
Password
Confirm Password
By signing up, I agree to the <b>Privacy Police</b> and <b>Terms of Service</b>
Continue

You will receive an email with a link to the confirmation page. Please fill your password and confirm password. When ready, press the Continue button.

# Corsano 🛟

12:30



Sensing Health, Saving lives!

Continuous health monitoring. Anytime, anywhere.

#### Welcome!

Hi, **Peter Stas**. Your account has been successfully created. Please list your name and create a password to continue.

Peter

Password

#### Password must:

- Have at least 8 characters
- Have at least 1 letter (a, b, c...)
- Have at least 1 number (1, 2, 3...)
- Include both Upper case and Lower case characters

#### Password must NOT:

- Contain only one character (111111 or aaaaaa)
- Contain only consecutive character (12345678 or abcdefgh)

**Confirm Password** 

A password should have at least 8 characters, at least one letter a, b, c..., at least one number, and both Upper and Lower case characters.

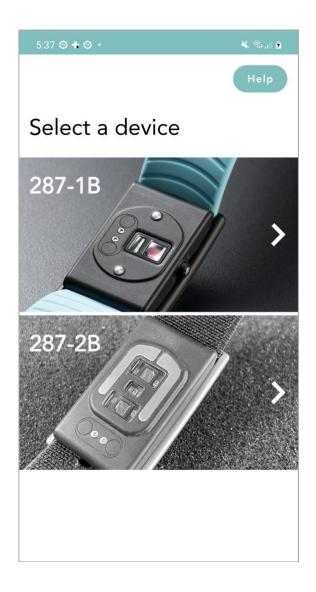
Password must NOT contain only numbers or consecutive characters

After you have signed up, you can Sign-In:

	۲ ۷	12:30
(j)	Sign In	
	Email Address	
	Password	$\bigcirc$
	Sign In	
	Forgot Password?	
	Cannot Sign In? Email support	

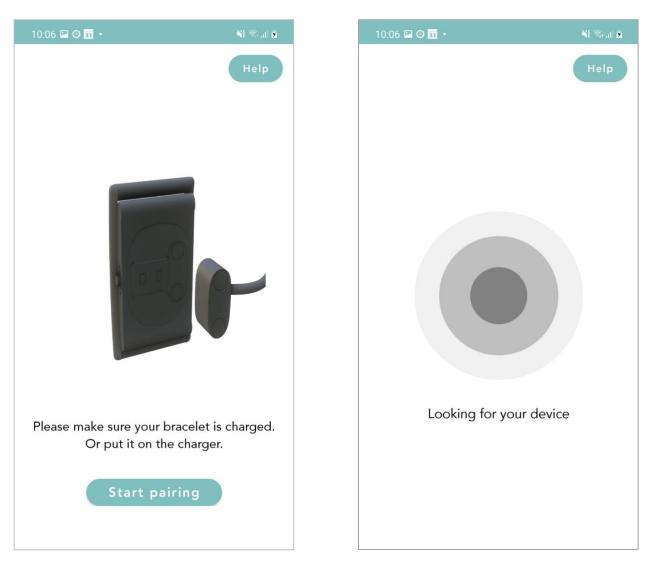
## 7.3 Pairing Your Bracelet with a Smart Device

Upon first sign-in, user will be asked to pair a bracelet, follow the instructions. First, select "287-1B" in the list:





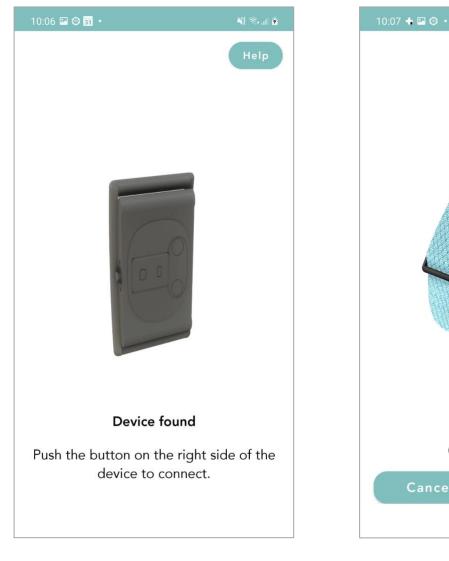
Press the pusher, the orange LED will flash, the bracelet is waiting for pairing.



Press on button in the app to start pairing.

After button is pressed app will look for the bracelet

# Corsano



Once the device is found, confirm by pressing on the pusher. On successful pairing, the bracelet will light the orange LED up for 10 seconds and then turn it OFF.

The app will display the Serial Number found. Please double check the S/N on the device and click Confirm. The devices is now paired to the app.

Device found

0102105A

(Please check on box.)

Confirm

Cancel

Figure 10 – APP Pairing, complete

When your bracelet is connected successfully to your smart device, the green "V" symbol appears under Settings:



### 7.4 Troubleshooting the Bluetooth Connection

If the connection between the bracelet and app is lost, a red "X" will appear:



Click on the button Please Reconnect and follow instructions:

- 1. Make sure your phone is nearby
- 2. Check if watch is charged
- 3. Check if GPS is on (Android only)
- 4. Force quit the app on your phone
- 5. Turn your phone's Bluetooth off and on again
- 6. Re-open the app

If these steps did not reconnect, please proceed:

- 1. Shut down your phone (do not do restart; completely shut the phone off and turn it back on). This will fully reset the Bluetooth system in the phone
- 2. Turn your phone on again
- 3. Re-open the app

If none of the above did not resolve, you will need to re-pair your bracelet:

- 1. Go to watch settings: Remove/Clean old pairing
- 2. Go to Bluetooth settings, find 287, 286, 284 > Click Forget Device/Unpair
- 3. Force quit the app on your phone
- 4. Re-open the app
- 5. Press the (+) inside the watch icon in upper right corner
- 6. Follow pairing instructions

### 7.5 Troubleshooting the Cloud Connection

If the connection between the app and the cloud is lost, a red "X" will appear:



Click on the button Please Reconnect and follow instructions:

- 1. Make sure your phone is connected to internet
- 2. Force quit the app on your phone
- 3. Turn your phone's Airplane Mode off and on again
- 4. Re-open the app

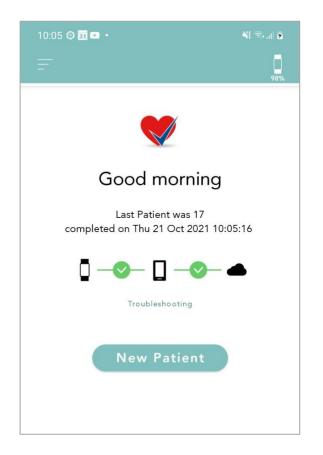
If these steps did not reconnect, please proceed:

- 1. Shut down your phone (do not do restart; completely shut the phone off and turn it back on). This will fully reset your phone
- 2. Turn your phone on again
- 3. Re-open the app

If none of the above did not resolve, you will need to to logout and login again to the cloud:

- 1. Go to profile settings and log out
- 2. Force quit the app on your phone
- 3. Re-open the app
- 4. Enter user and password
- 5. Follow instructions





<image><image><image><image><image>

Click on "New Patient"

Click on "Start Measurement"

During the measurement, please do not remove the app from multitasking. The screen of the phone can be locked. Please keep an internet connection on the phone while measuring. Please keep the phone close to the bracelet (few meters maximum) when measuring.

5 .il 🖻

Π

10:05 🖾 🕲 🛐 🔹	NE 🖘 al 🖻	10:39 🚳 🖬 🎯 🔹	NI 3.
Ŧ	98%	Ŧ	
		<	
Measuring Pa	tient 18	Measurement	Patient 19
Started Thu 21 Oct 20	21 10:05:28	Started Thu 21 Oct	2021 10:39:36
Please press Stop Measureme session.	ent to terminate the	Completed Thu 21 C	Oct 2021 10:39:39
┇ —�— ┇ –	<b>_</b>	┇ ─�─ []	-0
Troubleshooti	ng	Troublesho	oting
Note		Note	
Stop Measur	ement	ок	

When you want to stop the measurement, click on "Stop Measurement"

The app will stop the measurement. At this stagethe note is still editable.

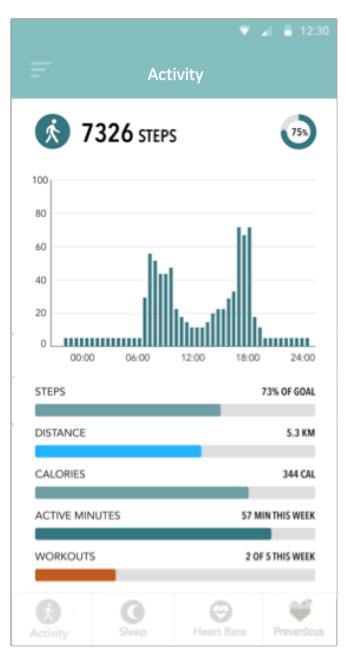
Click on "Done"

You can start these steps again to record other patients.

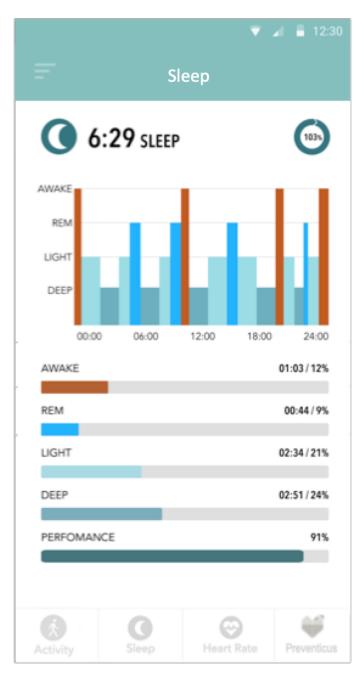
Confirm the stopping of the measurement by clicking on "Yes"

## 9 NON-MEDICAL INFORMATION

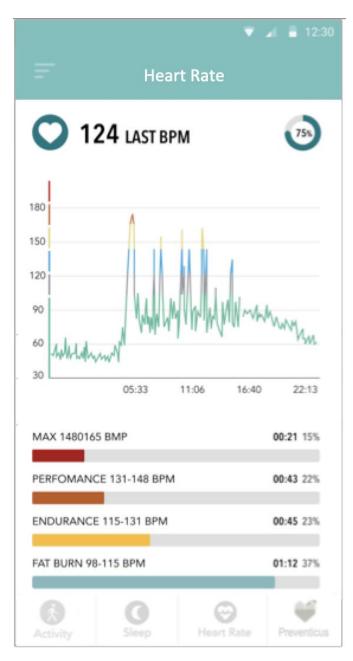
The Corsano Trials app provides non-medical information like Activity:



Sleep:



Heart Rate:





## 10 HEALTH APP AND GOOGLE FIT INTEGRATION

The Corsano Trials app is integrated with the Apple Health and Google Fit apps. Information about your activities and vitals helps us provide you with a monthly (premium) personal report. You have the option of turning off the integration within the Apple Health and Google Fit apps; however, doing so will limit the information available in your personal report. The Corsano Trials app shares the following pieces of information with the Apple Health and Google Fit app:

- Heart Rate
- Blood pressure
- Height
- Weight

The Corsano Trials app collects the following pieces of information from the Apple Health and Google Fit apps:

- Active Energy
- Blood Glucose
- Diastolic Blood Pressure
- Flights Climbed
- Heart Rate
- Height
- Oxygen Saturation
- Resting Energy
- Sleep Analysis
- Steps
- Systolic Blood Pressure
- Walking + Running Distance
- Weight
- Workouts

# 11 CLINICAL PERFORMANCE

	Definition	Unit	Range	Acquisition Time	Update interval	Accuracy *
Heart Rate	Number of beats of the heart per minute	beats/minute (bpm)	30-220	5-10 sec	1 sec	HR is ±4 bpm MAD, ±5% MARD (at rest)
RR Interval	Elapsed time between two consecutive heart beats	msec	300-2000 ms	5-10 sec	1 sec	RR Interval ±50 ms MAD, ±5% MARD (at rest)
Heart Rate Variability	Beat to beat (RR interval) variations	msec	0-200 ms	5-10 sec	1 sec	HRV ±10 ms MAD, ±5% MARD (at rest)
Respiration Rate	Number of breaths (inhalation - exhalation cycles) per minute	breaths/minute (brpm)	5-45 brpm	20-30 sec	1 sec	Respiration Rate ±1 bprm MAD, ±5% MARD (at rest)
Sleep Stages	Detection of specific sleep stages & sleep HR	awake, light sleep, deep sleep, REM	sleep stage	upon end of the entire sleep event	1 min	Sleep Stage ±10 % MAD
Sleep Score	Sleep performance and sleep consistency with equal weight	%	0-100%	10 sec	1 sec	Sleep Score ±5 % MAD

Remarks: \* MAD=Mean absolute difference & MARD=Mean absolute relative difference under motion

# 12 SPECIFICATION

Minimum requirements for mobile device Operating Systems:

- iOS 12.2 or higher
- Android 8.0 or higher

PPG Sensor Characteristics	
PPG	Single Channel
PPG LEDs number	2
PPG LEDs Peak wavelength	525 nm
PPG LEDs max current	30 mA
PPG sampling resolution	19 bits
Motion Sensor Characteristics	
Туре	
Acquisition noise	1.3 mg RMS
Sensor range	±16 g full sca
Data Acquisition	-
PPG sampling rate	
Motion sampling rate	100 Hz
Flash Memory Size	64 Mbit
Recording	Continuous
Power Requirements	
Average current	1 mA
Max current consumption	45 mA
Battery type	Rechargeable
Technology	Lithium Polymer
Battery capacity (Bracelet)	93 mAh
Autonomy (Bracelet)	up to 1 week
Dimensions	
Length x Width x Height	25mm x 37mm x 9mm
Environmental Specifications	
Ingress Protection	IP66
Operational Temperature	+10 to +40 degrees
Transport and storage Temperature	20 to +60 degrees
Operational Humidity	
Transport and storage Humidity	
Interface	
Wireless Communication	BLE 5.0
Display LEDs	1 green, 1 orang
User action	
sensor are exposed on the back of the Corsano	bracelet. The PPG sensor makes

contact with the user's skin.

## 13 <u>ELECTRICAL SAFETY AND ELECTROMAGNETIC</u> <u>COMPATIBILITY</u>

#### Guidance and manufacturer's declaration - electromagnetic emissions

The Corsano Bracelet is intended for use in the electromagnetic environment specified below. The customer or the user of Corsano Bracelet should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance			
RF emissions	Group 1				
CISPR 11		The Corsano Bracelet uses RF energy only for its internal			
RF emissions	Class B	function. Therefore, RF emissions are very low and are not likely to cause any interference in nearby electronic			
CISPR 11					
Harmonic Class A		equipment.			
emissions					
IEC 61000-3-2		The Corsano Bracelet is suitable for use in all			
Voltage		establishments other than domestic and those directly			
fluctuations /	Complies	connected to the public low- voltage power supply network			
flicker emissions		that supplies buildings used for domestic purposes.			
IEC 61000-3-3					

*	IEC 60417-5333	TYPE BF APPLIED PART
---	----------------	----------------------

Guidance and manufacturer's declaration—electromagnetic immunity					
Corsano bracelet is intended for use in the electromagnetic environment specified below. The customer or the user of Corsano bracelet should assure that it is used in such an environment.					
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance		
Electrostatic Discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.		
Electrical fast transient/burs t IEC 61000- 4-5	±2 kV for power supply lines ±1 kV for input/outpu t lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.		
Surge IEC 61000-4-6	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.		
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.		

# Corsano 🛟

Coreano brazalat i	e intended for use		munity netic environment specified below. The customer or the	
		c c	in such an environment.	
user of Corsano br				
Immunity test	IEC 60601	Compliance level	Electromagnetic environment - guidance	
	test			
	level			
Conducted	3 Vrms	NA	Portable and mobile RF communications equipment	
			should be used no closer to any part of Corsano bracele	
			including cables, than the recommended separation	
			distance calculated from the equation applicable to the	
			frequency of the transmitter.	
			Recommended separation distance (m)	
Conducted RF IEC 61000-4-6	150 kHz to 80 MHz	NA	$d = 1.2 \sqrt{P}$	
			$d = 1.2 \sqrt{P 80}$ MHz to 800 MHz	
			d = 2.3 $\sqrt{P}$ 800 MHz to 2.5 GHz	
			where <i>P</i> is the maximum output power rating of the	
Radiated RF	3 V/m	NA	transmitter in watts (W) according to the transmitter	
IEC 61000-4-3	80 MHz to 2.5 GHz		manufacturer and d is the recommended separation	
			distance in meters (m).	
			Field strengths from fixed RF transmitters, as	
			determined by an electromagnetic site survey <sup>a</sup> ,	
			should be less than the compliance level in each	
			frequency range <sup>b</sup> .	
			Interference may occur in the vicinity of equipment	
			marked with the following symbol:	
			$\left(\left(\left(\bullet\right)\right)\right)$	

NOTE 1—At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2—These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which Corsano bracelet is used exceeds the applicable RF compliance level above, Corsano bracelet should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating Corsano Bracelet. <sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

### Recommended separation distances between portable and mobile RF communications equipment and Corsano Bracelet

Corsano Bracelet is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Corsano bracelet can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Corsano bracelet as recommended below, according to the maximum output power of the communications equipment.

	Separation distance according to frequency of				
Rated maximum	transmitter (m)				
output power of	150 kHz to 80	80 MHz to 800	800 MHz to 2.5		
transmitter	MHz	MHz	GHz		
W	$d = 1.2 \sqrt{P}$	$d = 1.2 \sqrt{P}$	$d = 2.3 \sqrt{P}$		
0.01	0.12	0.12	0.23		
0.1	0.38	0.38	0.73		
1	1.2	1.2	2.3		
10	3.8	3.8	7.3		
100	12	12	23		

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in meters (m) can be determined using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1—At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2—These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

## 14 DISPOSAL OF THE DEVICE

Once your bracelet has reached its end of life it has to be properly recycled so that the material can be reused and will not end up in the environment. Preferably bring your device to a recycling service for Waste Electrical and Electronic Equipment.



# Corsano 🜔

## 15 CORSANO CONTACT INFORMATION

#### Corsano Health B.V.

Wilhelmina van Pruisenweg 35 2595 AN The Hague The Netherlands

www.corsano.com