

BioSense

WATCH



reddot winner 2025

BIOSENSE WATCH
THE NEW FACE OF VIVO TECHNOLOGY





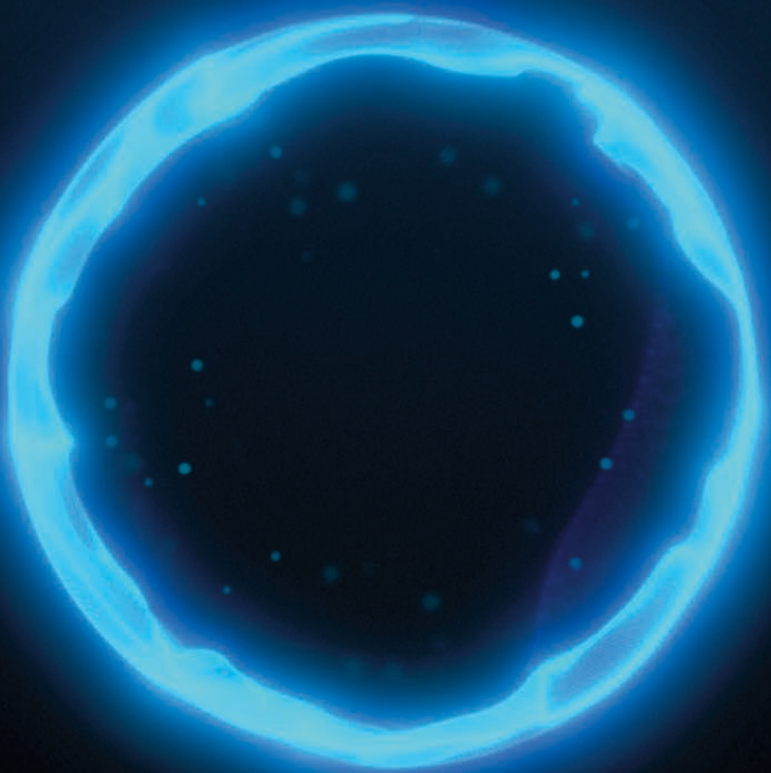
BioSense
WATCH



THE NEW, ULTRATHIN
BIOSENSE™ WATCH
INTRODUCES A NEW DIMENSION
IN WEARABLE DEVICES.

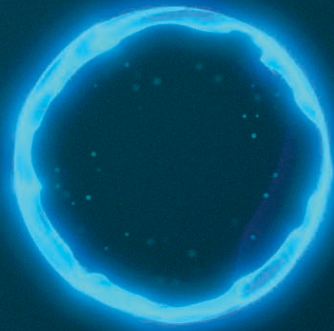
As the world's thinnest smart wearable with a full-function face, it brings you round to a better understanding of your wellness. It's another way Vyvo Technology empowers you with powerful insights into your biodata and it's the first VAI OS device!

IT CAN DO SO MUCH
including telling you the time



BioSense
WATCH

VIA Life CoPilot



ACCESSIBLE INTELLIGENCE

BioSense Watch easily connects you to VAI OS. With a built-in microphone and speaker, you can interact with your Life CoPilot right from your wrist, wherever you are.* And it can interact with you.

* Requires VAI OS Personal or Pro License and a Bluetooth connection to smartphone with cellular signal.



CRAFTED FOR
INTERACTION
WITH 


BioSense
WATCH






GETTING TO KNOW YOU

VAI OS uses a multimodal and multidirectional approach to make real conversations both easy and natural. Using the built-in speaker of the BioSense Watch, this Life CoPilot will ask you questions, seeking ways it can help you. Using the mic, you can give it directions and tasks. Being able to reach out to you on its own allows VAI OS to keep you informed on various aspects of your daily life, including:

Health Monitoring: VAI OS integrates with the BioSense Watch and is able to track and analyze your real-time health data. If something comes up that needs your attention, it will send alerts to let you know what it has noticed.

Personalized Suggestions: By analyzing your habits and data, VAI OS offers suggestions to enhance your daily life.

Timely Reminders: Based on schedules you have provided, or consistent habits that you have taken, VAI OS knows when to remind you of important tasks - whether it's taking your vitamins, getting in your daily steps, or following up on an email.

Consider this example: While consistently wearing and using your Vyvo device, VAI OS detects that there is a slight change in your usual health patterns. To ensure you are aware, it proactively reaches out to you to discuss the items it has noticed and offer potential solutions or actions to take. It could encourage you to take a break and hydrate, remind you to take your medication, or even recommend a quick check-up if it seems necessary.

That's the kind of care you can expect from VAI OS.



ONLY
6.5 mm
thick

JUST
49 gr
in weight

THE WORLD'S THINNEST SMARTWATCH

There are many smartwatches and health bands, but there's nothing in the world like the BioSense Watch.

It's just 6.5 mm. thin, and you'll wonder how there's room for all the technology inside, topped by a full-function bright OLED watch face.



BioSense
WATCH

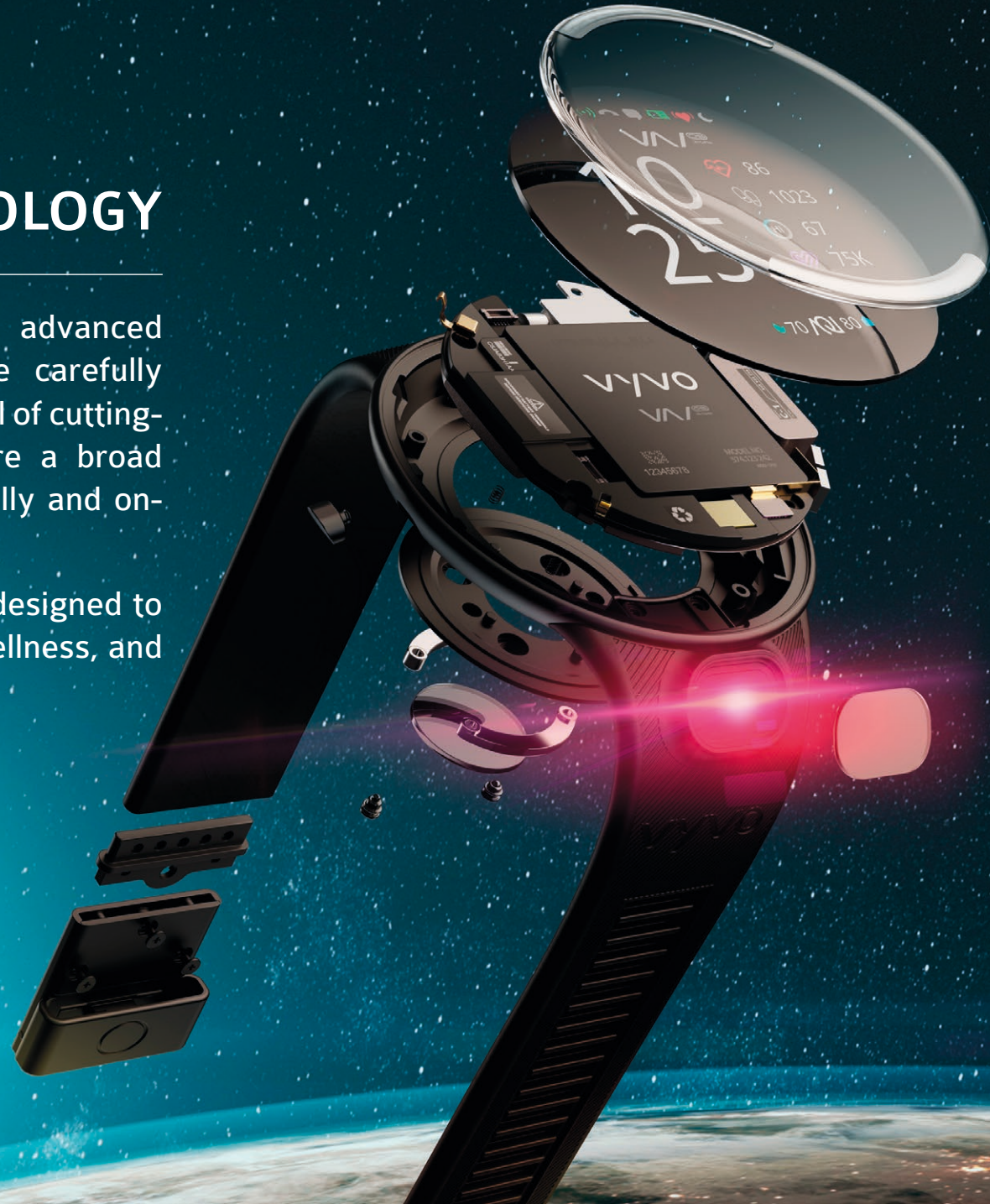


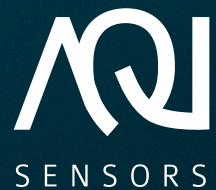
MINIMUM SIZE

MAXIMUM TECHNOLOGY

BioSense Watch houses many advanced components and sensors. We've carefully crafted this device and packed it full of cutting-edge micro technology to capture a broad range of your biodata, automatically and on-demand.

In every way, BioSense Watch is designed to help you precisely monitor your wellness, and your world.





THE FIRST SMARTWATCH WITH BUILT-IN SENSORS AIR QUALITY MONITORING

1. Monitor indoor air quality
2. Monitor outdoor air quality
3. Humidity data and ambient temperature

The BioSense Watch is so much more than just a pretty face. It's also the world's first smartwatch with advanced, German-made on-board air quality index sensors and analysis. This enables powerful monitoring and awareness of the world around you.

Unlike other AQI measurements, BioSense Watch monitors the air in your immediate vicinity - *the actual air you are breathing*, indoors and out. These real-time, highly personal and accurate air quality insights fuel better decisions for a better quality of life!

Your Personal Air Guardian



BioSense
WATCH

VIA Life CoPilot

INDOOR AND OUTDOOR AIR QUALITY

The indoor measurement is a stricter evaluation of the air immediately around you.

HUMIDITY

Represents the air surrounding the device, helping you know more about your environment.

AMBIENT TEMPERATURE

A measurement of your surroundings rather than the current weather.





BioSense
WATCH



CLINICAL-GRADE FINGERTIP SENSOR

BP + SPO2 + APG

It couldn't be simpler to check your SpO2 (blood oxygen), blood pressure, and APG (vascular age) readings at any time.

The BioSense Watch is equipped with an advanced optical sensor below the face and all you have to do is place your fingertip on it for a few seconds.

Your results are reported right away.



VYVO Life Watch

FDA Medical Device Type II
510(k) #K231288



BioSense
WATCH



The Best Gets Even Better

There's even more packed inside such a small design! BioSense Watch has all the wellness monitoring features you've come to expect from Vyvo Technology.

Bioelectrical Impedance Analysis

Enjoy a better understanding of your body composition that is far more helpful than just weight alone.

Electrocardiogram

Get to the heart of the matter - capture an accurate ECG at any moment.

Activity Tracking and Sleep Monitoring

Capturing both your most active moments and your sleep quality helps you better understand these important contributors to overall wellness.

Guardian Alerts and Push Notifications

If any of your metrics are outside of your usual range, Guardian will push a notification with your current location to anyone you have designated in your Smart App. This is an added safety measure at times when you may be at risk (requires a connection to a smartphone with a cellular signal).



BioSense
WATCH



ALWAYS READY TO PAY

SECOND GENERATION

vyvopay

VyvoPay is built right into the band of the BioSense Watch. Use it with NFC contactless terminals around the world to pay for goods and services using \$VSC. It works even if the watch is out of power! No need to find the right card, or even worry if you left your wallet behind.



PRIVACY-PROTECTING ENCRYPTION

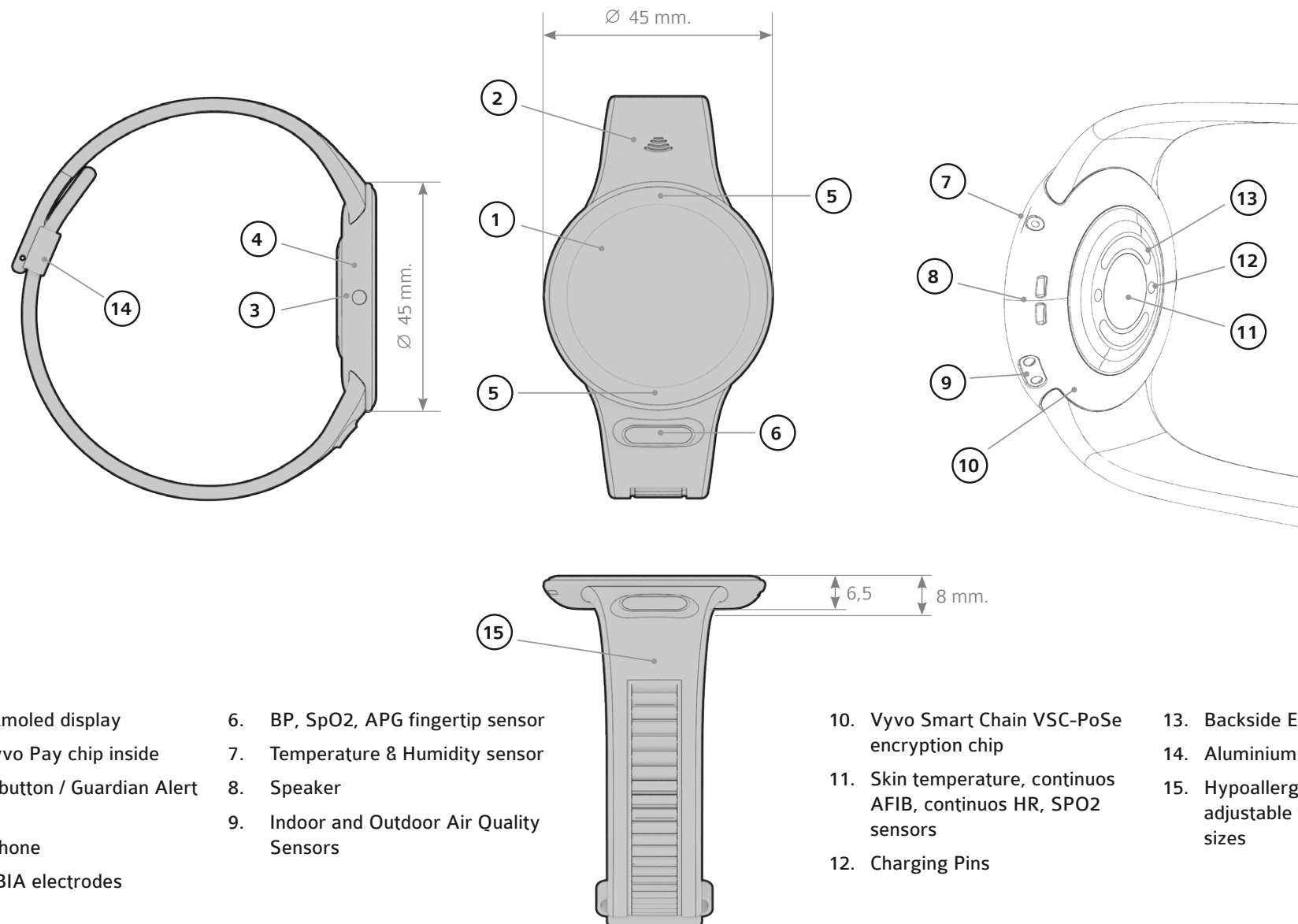
Like previous devices, BioSense Watch protects the personal data it captures from you through a powerful and proprietary VSC Proof-of-Sensing (PoSe) Encryption Chip.

Using blockchain technology, this chip verifies and validates the origin and generation of health, wellness, and air quality data. Furthermore, as a PoSe-enabled device, BioSense Watch rewards you with \$VSC as it gathers your health data.



BioSense

WATCH



- | | | | |
|--|---|--|--|
| 1. 1.43" Amoled display | 6. BP, SpO2, APG fingertip sensor | 10. Vyvo Smart Chain VSC-PoSe encryption chip | 13. Backside ECG Electrodes |
| 2. NFC Vyvo Pay chip inside | 7. Temperature & Humidity sensor | 11. Skin temperature, continuous AFIB, continuous HR, SPO2 sensors | 14. Aluminium clasp |
| 3. Power button / Guardian Alert / SOS | 8. Speaker | 12. Charging Pins | 15. Hypoallergenic silicone strap, adjustable from 5 to 12 wrist sizes |
| 4. Microphone | 9. Indoor and Outdoor Air Quality Sensors | | |
| 5. ECG & BIA electrodes | | | |

HARDWARE and SOFTWARE specification

Materials specification	1. Wristband material: liquid silicone gel + PA two-color coating, surface drying pattern + UV modification, built-in magnet adsorption	
	2. Heart electrode: stainless steel 316L + pvd black	
	3. Middleframe: stainless steel 316L. MIM + CNC + polishing + PVD + AF	
	4. Bottom shell: PA embedded 2 pieces of 316L stainless steel + PVD + 2PCS POGO pin	
Basic specification	Size	Ø 45.2 mm., Thickness 6.5 mm., Length 240 mm.
	Weight	49 grams
	Color	black
Display specification	Type	Oled
	Size	1.43"
	Number of dots	466x466 dots
	Color	16.7M (RGB x 24bits)
Hardware specification	MCU	ATS3089
	Built-in storage	Nor 64Mbit / PSRAM 128Mbit
	Flash memory	1Gbit
	Button	Power key*1
	Touch	Capacity touch
Audio	Mic	Sisonic MSM381ACB045
	Speaker	8Ω, MAX: 0.7 W
Connection	Bluetooth	BLE 5.0
	NFC Payment feature	Vyvo Pay available

HARDWARE and SOFTWARE specification

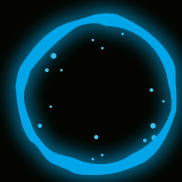
Sensors	Gyroscope	ST-LSM6DS3TR-C/ Reserve STK8321
	Heart rate sensor	PAH8311
	Fingertip blood oxygen + blood pressure	MAX 32664 + 30101
	Skin Temperature	117
	ECG+BIA	30001
	Encryption	SLS32
	AQI sensors	ZMOD4410A + ZMOD4510A
	Humidity sensor	HS3101
Battery	Category	Lithium polymer
	Standard Voltage	3.8 V
	Capacity	200 mAh
	Charging Time	1 hour
App	Vyvo Smart	Health Features: Heart Rate, Respiratory Rate, Energy, Stress, ECG, BIA, APG, Blood Pressure, Blood Oxygen, Arrhythmia Detection, Temperature, Sleep
		iOS 10.0 or above, Android 5.0 or above
		Activity data: steps, calories, standing
		Guardian: Heart rate, respiratory rate, blood pressure, blood oxygen, temperature, atrial fibrillation.
Other data	Strap size	240 mm. length
	Strap material	liquid silicone gel
Waterproof	Yes	IP67

FUNCTIONS

Health metrics	VAI OS	Interact with VAI OS by selecting it through the device menu or tapping the Watch display three times.
	Air Quality Index Indoor and Outdoor	General Air Quality Index supports 24-hour automatic measurement, recorded every 10 minutes.
		Indoor and outdoor Air Quality Index supports manual measurement initiated from the device or the App. Results are displayed on the device or in the App.
	Sleep	Automatically estimated by the device nightly, and reported on the device and in the App. Includes sleep quality and, when 24h monitoring is enabled, REM sleep and a count of sleep disturbances.
	Hearth Rate (HR)	Optional 24-hour automatic measurement. Automatic measurement interval is every 10 minutes. Support manual measurement initiated from the device or the App.
		Results displayed on the device or in the App.
	Stress	Supports 24-hour automatic measurement, captured every hour.
		Support manual measurement initiated from the device or the App. Results displayed on the device or in the App.
	Energy	Supports 24-hour automatic measurement, captured every hour.
		Support manual measurement initiated from the device or the App. Results displayed on the device or in the App.
	Breath Rate (BR)	Supports 24-hour automatic measurement (determined by status of heart rate monitoring is turned on/off). Automatic measurement interval is every 10 minutes.
		Support manual measurement initiated from the device or the App. Results displayed on the device or in the App.
	Oxygen Saturation (SpO2)	Supports 24-hour automatic measurement, captured every hour.
		Support manual measurement initiated from the device or the App. Results displayed on the device or in the App.
	Blood Pressure (BP)	Connect App for blood pressure calibration.
		Supports 24-hour automatic measurement, captured every hour. Support manual measurement initiated from the device or the App. Results displayed on the device or in the App.
	Electrocardiogram (ECG)	Support manual measurement initiated from the device or the App, and touch the electrodes above and below the Watch face with the index finger and thumb.
		Results are uploaded for AI analysis and reported in the App only.
	Atrial Fibrillation Beating (AFib)	Turn on or off in the App or on the device. Once turned on, it is activated immediately, and the green light on the watch underside will always be on. Results are uploaded for AI analysis and reported in the App only.
	Accelerated Plethysmography (APG)	Results are uploaded for AI analysis and reported in the App only.
		Support manual measurement initiated from the device or the App.
	Bioelectrical Impedance Analysis (BIA)	Support manual measurement initiated from the device or the App, and touch the electrodes above and below the Watch face with the index finger and thumb.
		Results are uploaded for AI analysis and reported in the App only.
	Skin Temperature	Supports 24-hour automatic measurement. Automatic measurement interval is every 10 minutes. Support manual measurement initiated from the device or the App.
		Captured by the temperature sensor. Results displayed on the device or in the App.

FUNCTIONS

Guardian Alert	HR	An App configured function. Upon detection of a Guardian alert, a message will appear on the BioSense Watch display and an email is sent to the specified guardian(s). Requires continuous connection to a smart phone with cellular data coverage. App must be open in the background of smart phone.	
	BR		
	BP		
	SpO2		
	Afib		
	Air Quality Index		
	Skin temperature		
Activity data	Steps	View in App or Watch display.	
	Calories		
	Stand		
Electrode	Electrodes can be found above and below the face of the BioSense Watch and are required for ECG and BIA measurements.	ECG	The index finger and thumb are placed on the electrode pads on the top and bottom of the Watch face.
		BIA	Touch the electrodes on the top and bottom of the Watch face with the index finger and thumb respectively. Ensure that your left and right hands do not touch each other.
VyvoPay		Secure Wallet	VyvoPay second gen



vyvo

Thank you!

vyvo.com/watch