

## Physiological Data Signals

### 1-lead ECG

256 Hz - 12 bits - Resolution LSB: 0.0064 mV

- Heart Rate
- Heart Rate Variability (HRV)
- Heart Rate Recovery (HRR)
- RR intervals

#### Quality Assessment Channels:

- Disconnection detection
- 50-60 Hz noise detection
- Saturation ECG signal detection
- Movement artifact detection
- RR intervals reliability detection

### Dual Channel

### Respiratory Inductance Plethysmography

(RIP) 128 Hz - 16 bits

- Breathing rate
- Tidal volume (L)
- Minute ventilation (L/min)
- Breathing inspiration & expiration events

#### Quality Assessment Channels:

- Disconnection detection
- Noise detection
- Baseline change detection

### 3-Axis Accelerometer

64 Hz - 13 bits

- Actigraphy
- Activity level
- Step counting
- Cadence

#### Quality Assessment Channels:

- Disconnection detection
- Noise detection
- Baseline change detection

## Textile Specifications

73% Polyamide Micro / 27% Elastane

Machine Washable

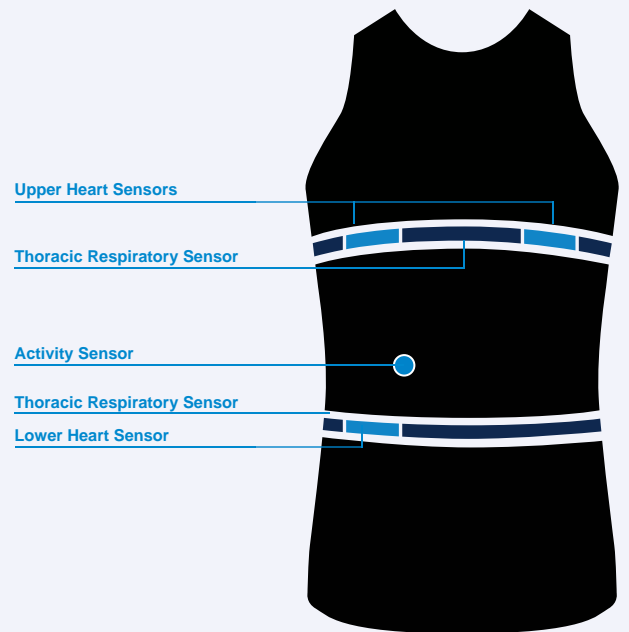
99.9% Antibacterial treatment

Lightweight fabric & quick to dry

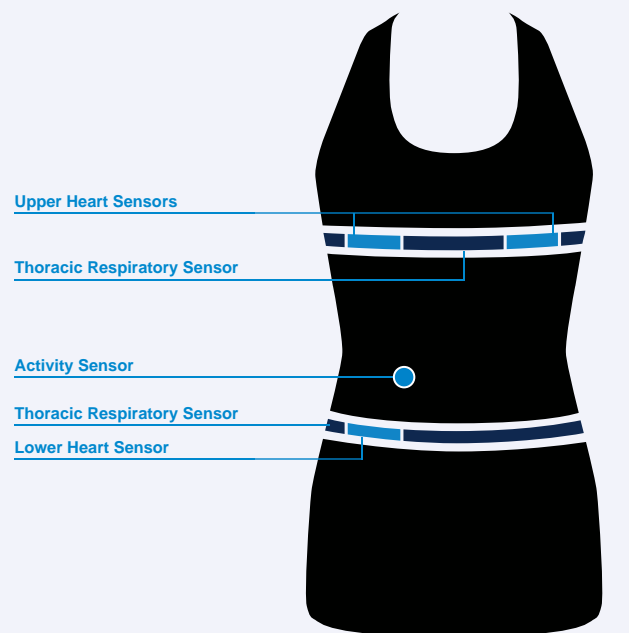
Optimized for moisture/heat regulation

UV Protection

### Hexoskin Smart Shirt - For Men



### Hexoskin Smart Shirt - For Women



Breathable  
Fabric



Antibacterial  
Treatment



Machine  
Washable

## Technical Specifications

### Operating conditions

Hexoskin operating temperature: -10°C , +60°C  
Hexoskin operating humidity: 0 to 100%

### Physical Overview

- Dimensions: 13 x 42 x 72 mm (0.53" x 1.632" x 2.814")
- Device weight: 40 g (1.41 oz)
- Durable construction

### Battery

- **30 Hours** of continuous data collection
- Rechargeable
- USB Fast Charge in 90 minutes

### Embedded Local Data Storage

- Loop Recorder: ~ **2,400 h** (100 days) of data storage
- Capacity: **16 GB** of data
- Collects 42,000 datapoints/minutes

### Bluetooth

- Bluetooth Low Energy **4.1**
- Real-Time Data Transmission
- Auto-Reconnect to last connected device
- iOS & Android compatible (Smartphones & Tablets)
- Compatible with Third-Party Apps

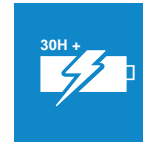
## Hexoskin Connected Health Platform

iOS and Android Applications for real-time data visualization,  
HxServices desktop data sync software (OSX 10.8 + & Windows 7-8 or later)  
Hexoskin Online Dashboard for Raw & Processed Data & Study Management

[Hexoskin Open API](#) . [Hexoskin SDK Licences](#) . [Platform Agnostic](#)



### Hexoskin Smart Device



30 Hours



iOS & Android



BLE 4.1



Third-Party Apps  
& SDK License



iOS App



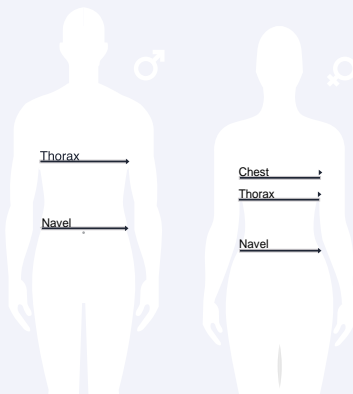
Android App



Data Sync  
Software



Data  
Visualization



## Hexoskin Shirt Sizing

With built-in all-textile sensors, the Hexoskin Shirts are light and comfortable.

Men		2XS	XS	S	M	L	XL	XXL	XXXL	XXXXL
Thorax	in	27.5 - 30	29.5 - 32.5	32 - 35	34 - 37	36.5 - 39.5	38.5 - 42	40.5 - 44.5	44 - 48	47.5 - 51.5
	cm	70 - 76	75.5 - 82	81 - 88.5	86.5 - 94.5	92 - 100.5	98 - 106.5	103.5 - 112.5	111.5 - 122	120 - 131
Navel	in	27.5 - 30	29.5 - 32.5	32 - 35	34 - 37	36.5 - 39.5	38.5 - 42	40.5 - 44.5	44 - 48	47.5 - 51.5
	cm	70 - 76	75.5 - 82	81 - 88.5	86.5 - 94.5	92 - 100.5	98 - 106.5	103.5 - 112.5	111.5 - 122	120 - 131
Women		2XS	XS	S	M	L	XL	XXL	XXXL	XXXXL
Chest	in	28.5 - 34	30.5 - 36.5	32.5 - 39	34.5 - 41.5	36.5 - 43.5	38.5 - 46	40.5 - 48.5	43.5 - 52	46.5 - 55.5
	cm	72 - 86.5	77 - 92.5	82 - 98.5	87.5 - 105	92.5 - 111	97.5 - 117	102.5 - 123	110 - 132	118 - 141.5
Thorax	in	26.5 - 29	28.5 - 31	31 - 33.5	33 - 36	35 - 38.5	37.5 - 41	39.5 - 43	43 - 47	46 - 50.5
	cm	67 - 63	72.5 - 79	78.5 - 85.5	84 - 91.5	89.5 - 97.5	95 - 103.5	100.5 - 109.5	109 - 119	117.5 - 128
Navel	in	26.5 - 29	28.5 - 31	31 - 33.5	33 - 36	35 - 38.5	37.5 - 41	39.5 - 43	43 - 47	46 - 50.5
	cm	67 - 63	72.5 - 79	78.5 - 85.5	84 - 91.5	89.5 - 97.5	95 - 103.5	100.5 - 109.5	109 - 119	117.5 - 128

\*Women's Sizes 3XL and 4XL available with Hexoskin ProShirts