

# In-ear Vital signs sensor

**Art.: ERTH0701**



*In-ear Vital signs sensor*

## Description

### What is a In-ear Vital signs sensor?

In-ear Vital signs sensor is an advanced medical tool designed for the continuous monitoring of body temperature, heart rate, and SpO2. This non-invasive, in-ear sensor delivers accurate and reliable data in real time.

## Features

- Continuous Measurement of Key Vital Signs:
  - Heart Rate
  - Body Temperature
  - Blood Oxygen Saturation (SpO2)
- Medically Certified
- Long battery life (approx. 12 hours of battery life when measuring continuously, longer battery life when measuring periodically)
- IP47 protected

## Best Settings

- A Nursing Homes
- A Clinical Settings (Hospitals and Clinics)
- A Home Care
- A Telemedicine

## Technical specification

### System

- Octa Core Cortex A53 Processor, 1.5G
- RAM: 1GB DDR3
- Internal Memory: 8GB

### Connectivity

- Bluetooth Low Energy (BLE) for data transmission:
  - Frequency ISM band 2.4 GHz – 2.485 GHz

### Power supply

- Rechargeable Battery:
  - Capacity: 60 mAh
  - Full Charge Time Approx. 1 hour
- Battery life:
  - Continuous: approx. 12 h
  - Periodical (3 min every 15 min): approx. 48 h
  - Standby: approx. 1 year

### Compatibility

- Compatibility: Integrates with the NurseCare system via Bluetooth.

### Dimensions

- H:55.2mm / W:58.6mm / D:10.0mm\*

## Weight (Net)

- 7g\*

## Material

- Silicone Rubber, Medical Grade ( ISO 10993-5 /-6 /-11 - USP class VI)

## Operating Conditions

- Operating Temperature: 0 °C to 40 °C
- Ambient Temperature for Transient Operating Conditions: 0 °C to 50 °C

## Other

- Size Options: Available in small, medium, and large tip sizes for a perfect fit.
- Measurement Parameters:
  - Body Temperature:  $\pm 0.3^{\circ}\text{C}$  accuracy
  - Heart Rate:  $\pm 4$  bpm accuracy
  - SpO2: ARMS  $\pm 3\%$  accuracy
- IP47
- Status Indicators: RGB-LEDs

A Regulatory Standards: CE marked and compliant with MDR 2017/745/EU\*\*

A Data Security: GDPR compliant, ensuring the highest standard of data protection.

**\*Disclaimer:** Product dimensions and weight are subject to change. Please verify details before purchase.

**\*\*** Certified to meet European Union (EU) safety, health, and environmental protection requirements.

**CE Marking:** Indicates that the device meets EU safety, health, and environmental protection standards, allowing it to be sold within the European Economic Area (EEA).

**MDR 2017/745/EU:** Refers to the Medical Device Regulation, a comprehensive set of regulations governing the production and distribution of medical devices in the EU, ensuring they are safe and effective.