

### TEKTELIC Communications Inc. 7657 10th Street NE Calgary, Alberta Canada, T2E 8X2

# TEKTELIC RESPIRATORY RATE SENSOR: USER'S GUIDE

Thank you for selecting TEKTELIC Respiratory Rate Sensor. This document will guide you through setting up your new device.

## Activating the Device

The device is shipped with a battery installed and a pull tab on the positive terminal of the battery. Ensure your device is commissioned on your Network Server before removing the pull tab. Removing the pull tab will activate the device. Once the device has been activated, the LED will blink red until the device is connected to the Network Server. Once connected, the LED will blink every time a message is sent to the Network Server.

If the device remains blinking red for more than two minutes follow these troubleshooting actions:

- Ensure the device is provisioned on the Network Server
- Ensure the local LoRa Gateway has also been provisioned on the Network Server
- Ensure a local LoRa Gateway is online and within range of the device

If you have questions about using this device please refer to the support portal: https://support.tektelic.com/portal/en/.

#### How to Use the Device

A picture of the device is shown below. The sensor is mounted on a strap that can be adjusted to fit a variety of individuals. It is meant to be worn on the upper torso with the device centered on the patient's chest as shown in the picture on the right.







Expected battery life is typically 2 months. To replace the battery, first remove the device from the strap and then remove the battery cover using a screwdriver or a coin. The battery should now be visible as shown in the picture below.



## Desktop and Mobile Applications

Sensor data can be displayed on either a Desktop Application or a Mobile Application. A picture of the Desktop Application Dashboard is shown below. On this Dashboard, healthcare workers can select a specific patient from the list, and access information such as the body temperature, heart rate, respiratory rate, chest expansion, physical position, and physical activity level.

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Patients		• ±	Details						<b>e</b> TEKTELIC
Q Start typi	ing to search		Patient's name Sultan Oliver	Patient's medical id 1915	Device id 647FDA0000000B9F	Creation date Nov 03 2020 17:09	Chest size 97 cm		/ ± = ``
Patient name	Device Name	Created at $\psi$					fermer 1		
Empty Test Patient	Empty Test Device	Nov 04 2020 14:13	Temperature 36.45 °C	Heart rate 87 bpm	Respiration rate 18 bpm	Chest expansion 1.7 cm	Position ic Sitting / Standing	Physical Activity Low	
Edward Byrne	2040K0004	Nov 03 2020 17:10	Time	Heart rate	Last 24 Hr	Last Week Tv	wo Weeks		
Sultan Oliver	2040K0008	Nov 03 2020 17:09	<b>13:00</b> 11.04.2020	96					
Reza Nikjah	2023A0004	Nov 03 2020 11:12	<b>13:01</b> 11.04.2020	99	Heart rate, b	pm			Zoom Out
Kiev QA	2040K0001	Oct 22 2020 06:44	13:02 11.04.2020	97	90-		in all		litt thatin
Harmony Kane	2040K0007	Oct 09 2020 08:35	13:03 11.04.2020	97	60-				
Jayde Tierney	2040K0006	Oct 09 2020 08:33	13:04 11.04.2020	96	30-				
Debbie Herrera	2040K0005	Oct 09 2020 08 32	13:05 11.04.2020	95	• •	Nov 04 13:70 Nov 04	Nov 04 13:24 Nov	Nov 04 13:31 Nov 04 13:38 Nov	04 13:45 Nov 04 13:52 Nov 04 14:00
Taylan Cowan	2040K0003	Oct 09 2000 +	Sensor up Nov 04 20	d patients idated at E 120 14:20 3	Battery level Urgent a 86 % Sensor up	attention mode is Inactive odating every 5 min	Turn ON		



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Similar data is available on the Mobile Application. A picture of the Mobile Application screen is shown below on the left. Data can also be visualized in the graphical form. An example of respiratory rate versus time is shown in the picture on the right.

