

# snuza<sup>®</sup>

## PICO

### Smart Wearable Monitor

#### INSTRUCTION MANUAL

**READ INSTRUCTIONS IN FULL BEFORE USE**



**IMPORTANT**

**Snuza Pico is a baby-care aid, not a medical device.  
It is not intended for the diagnosis, prevention or  
monitoring of a disease, injury or handicap.  
Pico is also not suitable for co-sleeping.**

SNUZA is a registered trademark of



**Snuza International (Pty) Ltd**

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**FCC ID: 2AI3601**

**IC: 21736-01**

Made in South Africa

Patented

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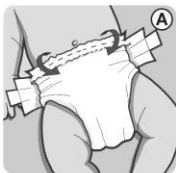
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## 1. IMPORTANT – READ FIRST!

Snuza Pico is designed to be attached to the diaper during sleep so that your baby's movement rate, body temperature and body position can be continuously monitored. This information is streamed to your smart device via Bluetooth low energy technology.

**\*\* Each user is limited to 4 Snuza Pico's that can be registered to a single smart device.**

**\*\* Only ONE smart device can be connected to a Snuza Pico at any one time.**



### **ALWAYS:**

Use the correct size diaper (nappy) to ensure that Snuza Pico sits securely on the diaper.

Fold the top of the diaper over before attaching the Snuza Pico to ensure a firm grip. Use the diaper adjusters to provide a snug fit around the tummy.



To attach the Snuza Pico, lift the front lever to release the clip. Place the clip over the folded diaper to the full extent of the clip.

Close the clip and click the locking lever closed. Ensure that the clip is closed properly once placed on the diaper.

To start monitoring press the power button; a start-up sound will indicate that Snuza Pico has started. Login to the App on your smart device. Snuza Pico will sync with the App on the smart device and the data will be displayed on the dashboard. (Note: press the refresh button on your smart device if it doesn't sync automatically).

For accurate position information, please go to the settings page on the App and indicate where the Snuza Pico monitor is attached on the diaper. Ensure that the Snuza Pico sits squarely on the diaper.



Always follow the above procedure to ensure that your baby's abdominal movement is being monitored.

**NOTE:**

Handle Snuza Pico with care to prevent damage to clip. Always store it inside the charging cradle when travelling.

## 2. INTRODUCTION

**Intended use:**

Snuza Pico is a portable baby movement monitor which safely and conveniently monitors your baby's abdominal movement while sleeping.

**Intended user:**

This equipment is intended to be operated by the baby's caregiver. The caregiver must have a good understanding of the instructions and safety measures within the user manual.

**Usage environment:**

Home Safety

Snuza Pico safely and conveniently monitors your baby's abdominal movement while sleeping to provide an early intervention opportunity in the event of no movement detected.

Snuza Pico should be clipped onto your baby's diaper (nappy) for total portability. No cords, wires, sensor pads, or external power are required. Snuza Pico is not suitable for co-sleeping or bed sharing.

Snuza Pico detects even the slightest abdominal movement and will alert you if your baby's movement stops for a period of 20 seconds. Snuza Pico will first vibrate gently after 15 seconds in an attempt to rouse the baby.

If the vibration succeeds in rousing the baby and breathing is detected after such an event the Snuza Pico will continue to monitor movement. After three vibration/rouse events, the Rouse Warning will alert you to the fact that your baby's abdominal movements have stopped for 15 seconds on three occasions. The Rouse Warning is characterized by a short beep and flashing of the yellow Movement Indicator Light (2) every 2 seconds. Monitoring will continue when the Rouse Warning is active but will require the caregiver to attend to the baby to investigate. The Rouse Warning alarm can be reset by briefly turning the device off and then back on. The repeat rouse warning feature can be disabled using the smart phone application. Each 15 second Rouse warnings will always be notified on the smart phone application.

The Snuza Pico will also measure the position your baby is in and your baby's skin temperature.



### 3. PRECAUTIONS AND CONTRA-INDICATIONS

- This device is not intended to prevent or monitor a disease or condition such as Obstructive Apnea.
- Movement from external sources such as being pushed in a pram or travelling in a vehicle or aircraft may be detected by Snuza Pico's sensor. Snuza Pico should not be relied upon where external sources of movement are present.
- The monitored baby must sleep in his/her own separate bed as the monitor may detect the abdominal movement of any other person sharing the bed with the baby, and will not alarm as long as it detects that movement, even if the baby stops breathing.
- Radio transmitters such as cell phones, audio and video baby monitors, cordless phones, walkie-talkies, wireless routers, etc. may cause interference with the monitor's ability to detect movement. The monitor should not be placed within 2 meters of other transmitting devices or electrical cables.
- No modification of this device is allowed.
- A single device should be dedicated for use with one baby only.
- Small parts that have become detached for some unlikely reason may result in a choking hazard.
- In case your baby develops skin sensitivity where the device makes contact with your baby's skin, refer to section 7.11. If the skin sensitivity persists, contact us via [www.snuza.com](http://www.snuza.com).
- Keep out of reach of pets, pests and other children as damage to the device might cause it to not perform as intended.
- Do not insert anything into the Speaker Holes (5).
- Do not allow any liquid to enter the Speaker Holes.
- Do not use undue force to bend/open/close the clip (11).

## 4. PARTS IDENTIFICATION



### Front

- 1 - Battery Indicator Light
- 2 - Movement Indicator Light
- 3 - Alarm Indicator Light
- 4 - Bluetooth & Notification Light
- 5 - Speaker Holes
- 6 - Power/Mode Button
- 7 - Clip Lever



### Back

- 8 - Non-contact Sensor
- 9 - Charging Pins
- 10 - Temperature Sensor
- 11 - Clip



### Charging Case

12 - Charging Cable

13 - Power Indicator Light

14 - Charging Dock

## 5. QUICK START GUIDE

### Step 1: Charge your Snuzo Pico

Attach the power cord to the charging dock. Ensure that the Snuzo Pico is seated on the charging dock and close the case lid. Leave your Pico charging for one hour.

### Step 2: Download the Snuzo Connect App

Snuzo Connect is available on iOS and Android.

Must support:

- Bluetooth 4.0
- Apple devices: iOS 8.0 or later
- Android devices: Android 4.4 or later

### Step 3: Register your Snuzo Pico

Go to [www.connect.snuzo.com](http://www.connect.snuzo.com). Select the Register New Membership option and complete the required fields.

A confirmation email will be sent to your selected email address. Once confirmed, you will be taken to the Snuzo Portal. Navigate to the 'Device Registration' tab in the menu.

Enter your device serial number and complete the required detail fields.

The serial number can be found on the side of the Snuzo Pico, or on the side of the Snuzo Pico packaging.

### Step 4: Attach your Snuzo Pico

Fold over the top edge of your baby's diaper and fit the diaper snugly.

Lift the clip to release and place the Snuzo Pico on your baby's diaper.

Ensure that the clip is properly closed once placed.

### Step 5: Turn on your Snuzo Pico and start monitoring

Turn on the Snuzo Pico by pressing and holding the power button until the start-up tone is heard and all indicator lights flash simultaneously.

Immediately after the start-up sequence, the battery light will flash green to indicate that the battery is fully charged.

Sync your smart device with the Snuza Pico by simply pressing the refresh icon on the App screen. You can now start monitoring your baby from your smart device.

### **BASIC SNUZA PICO FUNCTIONALITIES**

The Movement Indicator Light flashes green on each movement.

If no movement is detected for 15 seconds, your Snuza Pico will vibrate to rouse your baby.

If no movement is detected for a further 5 seconds, your Snuza Pico will sound an audible alarm.

### **BASIC SNUZA CONNECT APP FUNCTIONALITIES**

The Snuza Connect App is designed to bring you information on your baby's breathing rate, body position, skin temperature, fall detection and battery levels, and to alert you if the Snuza Pico's clip is open.

Customise your warning settings to your preference in the App.

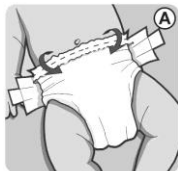
Warnings on the App can be dismissed by swiping them from left to right.

This excludes breathing rate and fall detection. These can only be dismissed by pressing the power button on the device.

Ensure that your smartphone is connected to the App in order to receive all notifications and warnings.

## 6. DIAPER/NAPPY FITMENT

**Important:** Correct diaper fitment is essential for the operation of Snuza Pico. The thin flap of material at the top of the diaper must be folded over the thicker part before the diaper is closed (this is the section to which Snuza Pico will be attached). The diaper should fit snugly on the baby with the top of the diaper just below the belly button. Loose fitting diapers will gape, causing the monitor to lose contact with the baby and false alarm. A very 'full' or wet diaper may also cause it to gape. If baby sleeps on his or her side, Snuza Pico should be placed off-center of the navel and the mattress.



## 7. OPERATION

### 7.1 Fitting your Snuzo Pico

When attaching your Snuzo monitor you should put your fingers in between the baby's diaper and the baby's skin. Make sure that the monitor is clipped securely onto the diaper and away from the baby's skin when clipped on in order not to harm the baby.

To attach lift the front lever to release the clip. Place the clip over the folded diaper to the full extent of the clip. Close the clip and click the locking lever closed as shown below:-

Open



Close



Make sure that the Snuzo Pico is close to the baby's tummy around the belly button area, although closer to the sides may suit different sleeping positions.

*The World Health Organisation (WHO) recommends that babies be placed to sleep on their back unless advised otherwise by a doctor. <http://www.who.int/en/>*

Place Snuzo Pico on tummy for back sleepers.

Place Snuzo Pico on side of tummy for belly sleepers.

Snuzo Pico has a built in alarm to indicate if the clip has been opened while in use. Before the alarm occurs, the Snuzo Pico will beep slowly for 7 seconds to warn you to switch it off or activate

the pause function. If the clip remains open for a further 3 seconds, the Clip Open Alarm will be activated.

## 7.2 Switch on/off

Snuza Pico can be turned on by briefly pressing the power button (6) and can be switched off by pressing and holding the power button (6) for 2 seconds. The corresponding startup and shutdown tones will be heard (refer to point 7.5).

Alternatively, Snuza Pico can also be switched on and off directly from the App (if it has been enabled in the App settings). This allows you the convenience of switching it on if you forgot to when you attached it to the diaper, without disturbing your baby.

## 7.3 Pause

Snuza Pico was designed to monitor your baby's movement, skin temperature and body position while sleeping. However, to prevent false alarms while your baby is not sleeping (such as while breast feeding, changing the baby's diaper, tummy time, etc.), the "Pause" function will allow you to temporarily pause monitoring for a user-configurable (on the App) time while, for example, breast feeding or diaper changes take place.

The pause function can be activated directly from the App by tapping the Pause button.

## 7.4 Charging

Snuza Pico's carry case (12) is a unique power charger which recharges the built in battery by simply placing the Snuza Pico in the carry case.










## 7.5 Indicator lights

### Startup and shutdown sequences

#### Startup using power button

When Snuza Pico is switched ON using the power button (6), the indicator lights (1, 2, 3, 4) will flash in sequence from left to right, followed by a startup tone. Immediately after the startup tone, the battery indicator light (1) will flash to indicate the state of the battery when it is switched on. The battery indication has the following meaning:-

	Green	Battery OK
	Yellow	Battery is low but should last another few hours
	Red	Battery is very low and should be charged
 	Red followed by shutdown tone	Battery is too depleted for operation and Snuza Pico has automatically shut down. Please charge immediately.



### Startup using APP

When Snuza Pico is switched ON using the App, no audible tone is played, but the usual startup indicator light flash sequence will occur.

Battery information is displayed on the App dashboard so it is not necessary to observe the battery LED during remote startup.

### Switch off using button




When Snuza Pico is switched OFF using the button, indicator lights will flash in a sequence from right to left, followed by a shutdown tone.

### Switch off using App

When Snuza Pico is switched OFF using the App, no audible tone is heard, but the usual shutdown indicator light flash sequence occurs.




## 7.6 Movement indicator light

The Movement Indicator Light (2) flashes when movement is detected:-

	Green	Strong breathing signal detected
	Yellow	Weak breathing signal detected
	Red	Very weak breathing signal detected

## 7.7 Bluetooth low energy

Bluetooth Indicator Light (4):-

	Blue	Light flashes blue every 2 seconds if connected to your smartphone/tablet
	Pink	Light flashes pink every two seconds while paused
	Pink flashing	Flashes pink 6 times immediately after startup to indicate that there is an important notification for you on the server that needs your attention. View this important message by logging into your account on the Snuza Connect Portal ( <a href="http://connect.snuza.com">connect.snuza.com</a> )

## 7.8 Battery indications

### At startup

As explained above at “Startup and shutdown sequences”.

### When battery level is low (while Snuza Pico is on)

Battery Indicator Light (1) will flash red every 5 seconds and will beep twice every 60 seconds.

### When battery level is critical (while Snuza Pico is on)

Battery Indicator Light will flash red every 5 seconds and beep twice every 10 seconds.

### When charging

While charging, the Battery Indicator Light will flash green.

When charging is complete, the Battery Indicator Light on the Snuza Pico will remain a constant green colour.

## 7.9 Alarm indications

**Breathing stopped** - Snuza Pico sounds an alarm and simultaneously flashes the alarm indicator light (3). The App also sounds an alarm.

**Freefall** - Snuza Pico sounds an alarm and simultaneously flashes the alarm indicator light (3). The App also sounds an alarm.

**System fault** - Snuza Pico sounds a lower frequency alarm on the device and the App.

**Clip (7) open alarm** - Warning beeps for 10 seconds, and then a continuous 3 beep alarm sounds with the warning indicator light flashing and an alarm sounding on the App.

**App** - The App on your smart device will alarm in addition to the above alarms. You can set low and high temperature, breathing rate, and body position alarms.

## 7.10 Charger indicator lights

When power is connected to the charger, the Power Indicator Light (13) on the charger will illuminate. The Power Indicator Light does not change whether Snuza Pico is being charged or not. It only indicates if power is applied to the charger. To determine if Snuza Snuza Pico is charging when it is on the charging cradle, refer to the previous section.

## 7.11 Clothing

- Snuza Pico can be clipped onto the folded waistband of the diaper or the waistband of elasticated pants.
- It is not recommended to have clothing between Snuza Pico and the skin.
- Snuza Pico can be used under clothing, but not over.

- Too much clothing may attenuate or muffle the alarm. Make sure the alarm can be heard if baby is covered in clothing and/or blankets.
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## 8. ROUSE WARNING

Note: If the Smartphone is connected, all warnings and alarms, as well as all real time data are visible on the App. During monitoring, if no breathing movement is detected for 15 seconds, Snuzo Pico vibrates gently in an attempt to rouse the baby. If abdominal movement resumes within the next 5 seconds, the Movement Indicator Light (2) will flash red on each subsequent abdominal movement as an indication that there has been an event of no movement for 15 seconds. With the Rouse Warning enabled, after 3 such vibration and successful rousing incidents, the Movement Indicator Light (2) will flash red every 2 seconds with a simultaneous audible beep. This alerts you to the fact that your baby has stopped moving for 15 seconds on three occasions and has then resumed abdominal movement after Snuzo Pico has vibrated. Note:- Monitoring will continue while the Rouse Warning is sounding. The Rouse Warning is automatically enabled each time Snuzo Pico is switched ON.

## 9. BATTERY

### 9.1 Battery Indicator

If the battery becomes depleted during monitoring, the Battery Indicator Light (1) will flash as follows:-

Battery Indicator Light (1) will flash red every 5 seconds and will beep twice every 60 seconds. When the battery becomes critical, the Battery Indicator Light will flash red every 5 seconds and beep twice every 10 seconds. Charge the battery before further use (see Section

9.2 Charging the Battery). The Beep can be silenced by pressing the power/mode button once.

## 9.2 Charging the battery

Snuza Pico's carry case is a unique power charger which recharges the built in battery by simply placing Snuza Pico in the carry case.

# 10. MAINTENANCE

## 10.1 Disposal

The device and packaging material must be disposed of in accordance with your country's laws governing the disposal and recycling of batteries.

## 10.2 Cleaning and Storage

- Gently wipe with a damp cloth to remove any dirt. A mild soap may be used for stubborn dirt.
- Do not use any other cleaning agents as they may contain damaging chemicals.
- The monitor is splash resistant, not waterproof. Do not immerse in water. If it gets wet, dry it off immediately.
- When in transit, keep your Snuza Pico in its protective case. Do not store your Snuza Pico in its charging case for prolonged periods or store it in a damp area.
- To prolong battery life:-
  - Fully recharge before storing Snuza Pico for long periods.

- Do not let Snuza Pico completely discharge and stay discharged for long periods of time.

## 11. TROUBLESHOOTING

- 11.1 Check incorrect fitment and placing of Snuza Pico on baby's diaper (see Section 6 *Diaper/Nappy Fitment* and Section 7.1 *Fitting your Snuza Pico*).
- 11.2 Battery failure. The Battery Indicator Light (1) will show red.

Please visit our website [www.snuza.com](http://www.snuza.com) for further information.

## 12. DISCLAIMER

Customers use this monitor at their own risk and Snuza International (Pty) Ltd, its members, employees, agents, contractors, representatives, manufacturers, distributors and associates ("SNUZA") shall not be held liable for any loss, damage or injury suffered by the customer or any other person arising from, or in connection with, the use or manufacture of the monitor, including loss, damage or injury suffered by the customer or any other person as a result of any defects in respect of the monitor, and all warranties, and any other liability from whatsoever cause arising, are hereby excluded and the customer hereby indemnifies Snuza International (Pty) Ltd in respect of any such liability.



### 13. GUARANTEE

Snuza International (Pty) Ltd guarantees this product to be free from defects in materials and workmanship for a period of 12 months from the original date of purchase, verified by a sales receipt. Our guarantee liability shall be limited to replacing the unit free of charge and does not include transport costs. Our guarantee extends to all countries in which this product is supplied. By the act of operating this product, the user accepts all resulting liability. We reserve the right to modify the provisions of this guarantee at any time without notice. This guarantee does not cover the battery, incorrect application, tampering, misuse or transport damage.

### 14. REGULATORY INFORMATION

#### **FCC compliance statement for Snuza Pico and charging cradle:-**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference;
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device meets the FCC requirements for RF exposure in public or uncontrolled environments.

#### **Canadian regulatory statement for Snuza Pico and charging cradle:-**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference;

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:





- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.


### **CAN ICES-3 (B)/NMB-3(B)**

This device complies with the safety requirements for RF exposure in accordance with RSS-102 Issue 5 for portable use conditions.

Cet appareil conforme avec les règlements et exigences des radiofréquences en conformité avec CNR-102 5e édition pour condition d'usage portative.

## 15. TECHNICAL DESCRIPTION

	Type BF applied part
	CE marking according to CE 1999/5/EC, 2001/95/EC, 89/336/EEC (TV Rheinland)
	FCC marking according to Federal Communications Commission – USA FCC ID: 2A13601
<p><b>IC: 21736-01</b></p>	This device complies with Industry Canada licence-exempt RSS standard(s)
<p><b>IP52</b></p>	The enclosure of the monitor is protected against the ingress of dripping water
	Device Serial Number (the first two numbers indicate the year of manufacture)

	<p>See the Disposal section for proper disposal of the monitor</p>
<p>Typical service life</p>	<p>Snuza Pico has an expected service life of 5 years from the date of manufacture</p>
<p>Environmental Conditions</p>	<p>Permissible environmental operating conditions:</p> <ul style="list-style-type: none"> <li>· Temperature: 5 °C to 40 °C.</li> <li>· Humidity: 15% to 93%, non condensing</li> <li>· Air pressure: 700HPA TO 1060HPA</li> </ul>
<p>Permissible environmental conditions of transport and storage after having removed the device from its protective packaging and subsequently between uses:</p>	<ul style="list-style-type: none"> <li>· 25 °C without relative humidity control; and</li> <li>+70°C at a relative humidity up to 93%, non-condensing</li> </ul>
<p>Power Source:</p>	<p>Internally Powered</p>
<p>Battery Specification:</p>	<p>Lithium polymer</p>

Sound pressure level:	85dBm at 10cm
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### Contact Us:

For assistance with using or maintaining Snuza Pico or to report unexpected operation or events, contact us via:

Internet: [www.snuza.com/contact.php](http://www.snuza.com/contact.php)

Email: [support@snuza.com](mailto:support@snuza.com)

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