

snuza[®]

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

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Made in South Africa

Patented

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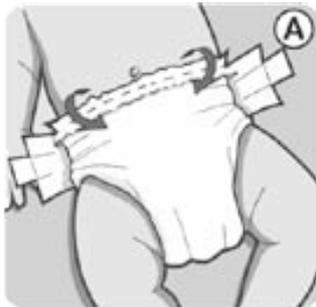
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1. IMPORTANT – READ FIRST!

The Snuzza 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 and the information is streamed to your smart device via Bluetooth low energy technology.

Each user is limited to four Snuzza Pico's that can be registered to a single smart device.

Only one smart device can be connected to a Snuzza Pico at any one time.



ALWAYS:

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

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

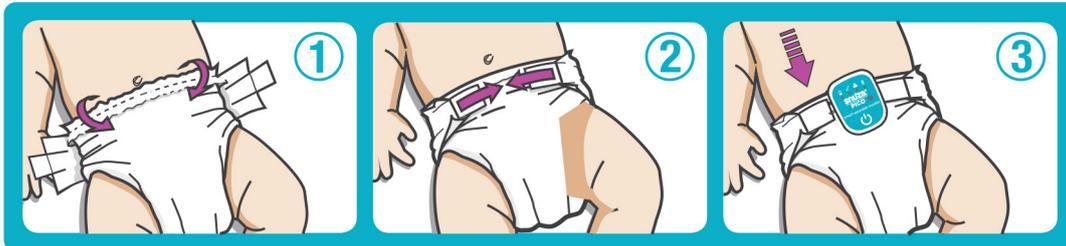


To attach the Snuzza Pico, lift the top lever to release the bottom clip. Before clipping the Pico onto the diaper/nappy, place your fingers between the skin and the clip. Place the clip over the folded diaper to the full extent of the clip. Remember to place your fingers between your baby's skin and the diaper when closing the top lever until you feel it click. There is a small possibility for skin to get caught in the bottom clip pivot mechanism (where the clip attaches to the Pico body) if downward pressure is applied (towards the baby) while closing the lever.

Please make sure you can feel there is no trapped skin before closing the lever. Once secured in place, double-check to ensure skin is not trapped. Also, never move the Pico by sliding it along the diaper (left or right) once the lever has been closed as this may also result in skin being caught between the sides of the bottom clip and diaper.

To start monitoring press the power button, a start-up sound will indicate the Snuzza Pico has started. Log in to the app on your smart device. The Snuzza 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 The Snuzza Pico monitor is attached on the diaper. Ensure that the Snuzza Pico sits squarely on the diaper.



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

NOTE:

Handle the Snuzza Pico with care to prevent damage to clip and always store it inside the charging cradle when travelling.

2. INTRODUCTION

**Intended Use:**

The 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

The 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.

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

The Snuza Pico detects even the slightest abdominal movement and will alert you if your baby's movement stops for a period of 20 seconds. The 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 red Movement Indicator Light (1) 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 movement.
- To attach the Snuza Pico, lift the top lever to release the clip. Before clipping and attaching the Pico onto the diaper, place your fingers between the skin and the clip. Failing to follow this technique may result in skin pinching.
- 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.
- 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 Sound Emission Holes (5).
- Do not allow any liquid to enter the Sound Emission 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 doc. Ensure that the Snuzo Pico is seated on the charging doc and close the case lid shut. Leave your Snuzo Pico charging for 1 hour.

Step 2: Download the Snuzo Connect App

Snuzo Connect is available on iOS and Android.

View iOS App guide: <http://www.snuzo.com/manuals/>

View Android App guide: <http://www.snuzo.com/manuals/>

Smart device minimum requirements:

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**. 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 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 & Start Monitoring

Turn on the Snuzo Pico by pressing the power button down 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 Snuzo Pico by simply pressing the refresh icon on the app screen. You can now start monitoring your baby from your smart device.

Basic Snuzo Pico Functionalities

The Movement Indicator Light flashes green on each movement.

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

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

Basic Snuzo Connect App Functionalities

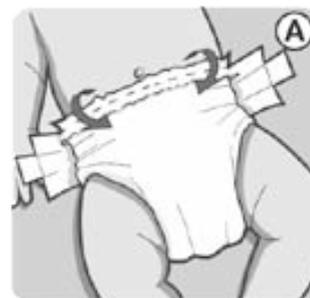
The Snuzo Connect App is designed to bring you information on your baby's breathing rate, body position, skin temperature, fall detection, battery levels and alert you if the Snuzo Pico's clip is open. Customise your warning settings to your preference in the App.

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 the 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 the 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, the Snuza Pico should be placed off-center of the navel and the mattress.



7. Operation

7.1 Fitting your Snuza Pico

To attach the Snuza Pico, lift the top lever to release the clip. Before clipping the Pico onto the diaper, place your fingers between the skin and the clip. Place the clip over the folded diaper to the full extent of the clip. Remember to place your fingers between your baby's skin and the diaper when closing the lever until you feel it click.

Please make sure you can feel there is no trapped skin before closing the lever. Once secured in place, double-check to ensure skin is not trapped. Also, never move the Pico by sliding it along the diaper (left or right) once the lever has been closed as this may also result in skin being caught between the sides of the bottom clip and diaper.

Open



Close



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

7. Operation

7.1 Fitting your Snuza Pico

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

Clip the Snuza Pico all the way onto the diaper to the full extent of the clip. 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:

Make sure that the Snuza 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. See <http://www.who.int/en/>

Place on tummy for back sleepers
Place on side of tummy for belly sleepers

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

The 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, the 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

The 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.

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



7.4 Charging

The 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

	Green	Battery Ok
	Yellow	Battery is low but should be charged
	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 power button

When the Snuza Pico is switched ON using the power button (6), the indicator lights (1,2,3,4) will flash in a 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.

Startup using App

When the 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 the 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 the 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	Flashes blue every 2 seconds if connected to your smartphone/tablet
	Pink	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 to the Snuza Connect Portal (connect.snuza.com)

7.8 Battery Indications

At startup

As explained above at “Startup and shutdown sequences”

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

Battery Indicator Light will flash red every 5 seconds and will beep twice every 60 seconds

When battery level is critical (while the 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 The Snuza Pico will remain a constant green colour.

7.9 Alarm Indications

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

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

System fault - The Snuzza 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 (14) on the charger will illuminate. The Power Indicator Light (14) on the charger does not change when the Snuzza Pico is being charged or not. It only indicates if power is applied to the charger. To determine if the Snuzza Pico is charging when its on the charging cradle, refer to the previous section.

7.11 Clothing

- The Snuzza 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 the Snuzza Pico and the skin.
- The Snuzza 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.

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 movement is detected for 15 seconds, the Snuza 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 the Snuza Pico has vibrated. Note:- Monitoring will continue while the Rouse Warning is sounding. The Rouse Warning is automatically enabled each time the Snuza 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 10.3 Charging the Battery) The Beep can be silenced by pressing the power/ mode button once.

9.2 Battery Life

The Snuza Pico battery will last approximately 40hours on a full charge. The battery life is however dependent on usage.

The Snuza Pico's carry case is a unique power charger which recharges the built in battery by simply placing the 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 the Snuza Pico for long periods.
 - Do not let the the Snuza Pico completely discharge and stay discharged for long periods of time.

11. TROUBLESHOOTING

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

15. TECHNICAL DESCRIPTION

	Type BF applied part
	CE marking according to CE 5/1999/EC, 95/2001/EC, 336/89/EEC (TV Rheinland)
	FCC marking according to Federal Communications Commission - USA
IC: 01-21736	This device complies with industry Canada licence-exempt RSS standard(s)
IP52	IP52 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)
	See the Disposal section for proper disposal of the monitor
Typical Service Life	Snuza The Snuza Pico has an expected service life of 5 years from the date of manufacture.
Environmental Conditions	Permissible environmental operating conditions: <ul style="list-style-type: none"> • Temperature: 5 °C TO 40 °C. • Humidity: %15 TO %93, Non Condensing, • Air pressure: 700HPA TO 1060HPA
Permissible environmental conditions of transport and storage after having removed the device from its protective packaging and subsequently between uses:	• 25 °C without relative humidity control; and +70 °C at a relative humidity up to 93%, non-condensing;
Power Source:	Internally Powered
Battery Specification:	Lithium Polymer
Sound pressure level:	85dBm at 10cm

Contact Us:

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

Internet: www.snuza.com/contact.php

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