

# User Manual

[smartsnugg.com.au](http://smartsnugg.com.au)

English



SmartSnugg®

# Contents

|                                |           |
|--------------------------------|-----------|
| <b>Product</b>                 | <b>5</b>  |
| Description                    | 6         |
| Product System                 | 7         |
| Best Practice                  | 9         |
| Safety Warnings                | 9         |
| <b>Set Up</b>                  | <b>10</b> |
| Setting up the SmartSnugg® App | 11        |
| Setting up your Pebble         | 13        |
| Setting up your Bridge         | 14        |

|                                      |           |
|--------------------------------------|-----------|
| <b>Use</b>                           | <b>15</b> |
| Fitting your SmartPebble             | 16        |
| Using your SmartPebble               | 17        |
| Using the SmartSnugg® App            | 18        |
| Temperature and Orientation Guidance | 23        |
| Troubleshooting                      | 24        |
| <b>Specifications</b>                | <b>26</b> |
| Technical Specification              | 27        |
| Symbol Definition                    | 29        |
| <b>Warranty</b>                      | <b>30</b> |
| <b>Legal</b>                         | <b>32</b> |



# Product



# Welcome to SmartSnugg®

Monitoring your child during sleep has never been easier or more convenient.

With the SmartSnugg® Infant Monitoring System, you can ensure your child is safe and comfortable as they sleep. Go to bed knowing that you will be alerted if your child is sleeping on their tummy or becomes too hot or cold, which are factors that have been associated with increased risk of Sudden Infant Death Syndrome (SIDS).

With SmartSnugg® on watch, the whole family can enjoy a quality, comfortable sleep.

While SmartSnugg® monitors your child throughout the night, we recommend you continue to supervise your child periodically.

# Product System

## Components



### SmartPebble

The SmartPebble is an ultra-light sleep monitoring device for your baby. Measuring temperature, movement levels and sleep position, the SmartPebble slips securely into the patented pocket system inside your SmartSleeper.

The Bridge also functions as a nightlight that is fully adjustable from within the SmartSnugg® App.

**Hint**

ENGLISH



### SmartBridge

The SmartBridge is a Wi-Fi bridge and room temperature monitor with a built-in nightlight. When connected to the local Wi-Fi network, one SmartBridge can communicate with multiple SmartPebbles. This allows you to monitor your child's sleep whether you are in the living room or enjoying a night out.

Simply plug the SmartBridge into a power outlet in your child's room, and it will securely transmit room temperature data and data from any SmartPebbles within range to the SmartSnugg server.



## SmartSnugg® App

Both iOS and Android SmartSnugg® Apps allow you to monitor your child's sleep in real time. Through the App you will receive notifications to help you pro-actively manage your child's comfort and safety.

Through the SmartSnugg\* Apps you will also receive guidance about the most suitable way to dress your child for sleep to achieve the optimal sleeping environment. This recommendation system is built on extensive testing and specific proprietary insights gained through careful analysis of SmartSnugg Infant Sleep Database.



## SmartSleeper


The SmartSleeper is a state-of-the-art infant sleeping bag featuring a unique and easy to use side-opening zipper.

Each SmartSleeper is fitted with a patented internal pocket system designed to conveniently house the SmartPebble.




# Best Practice

The following tips will help you make the most of your SmartSnugg® App.

-  When starting a sleep session, ensure that the battery of your smartphone has sufficient charge for the duration of the sleep session, or is plugged into a charger.

*Battery usage is likely to increase whilst the SmartSnugg® App is monitoring a live sleep session.*

-  You may leave the application during a sleep session but you should avoid closing down the application during this time.

*Closing down the application will end the current session and the recorded data will be lost.*

*You can leave the application at any time.*

-  Enable push notifications.

*SmartSnugg® uses push notifications to alert you, so ensure that push notifications are enabled and that 'do not disturb' mode is off.*

-  Check your child regularly.

*Whilst SmartSnugg® helps monitor your child throughout the night, we recommend you continue to supervise your child periodically.*

# Battery Warnings

**WARNING - KEEP BATTERIES OUT OF REACH OF CHILDREN**

- Swallowing may lead to serious injury in as little as 2 hours or death, due to chemical burns and potential perforation of the oesophagus.
- If you suspect your child has swallowed or inserted a button battery immediately call the 24-hour Poisons Information Centre on 13 11 26 for fast, expert advice.
- Examine devices and make sure the battery compartment is correctly secured, e.g. that the screw or other mechanical fastener is tightened. Do not use if compartment is not secure.
- Dispose of used button batteries immediately and safely. Flat batteries can still be dangerous.
- Tell others about the risk associated with button batteries and how to keep their children safe.

# Set Up



# SmartSnugg® App

## Download and Set Up



### Download

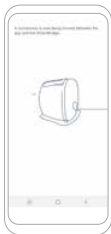
Download the SmartSnugg® application from the App Store for IOS devices or the Google Play Store for Android devices.



### Create Account

Create a SmartSnugg® account using your email or by signing up with Facebook or Google.





## Connecting to the Bridge

Once in the app follow the instructions to connect your Bridge. You will then be prompted to give the Bridge a name. We recommend that you give it a name that identifies whose room it will be in (e.g. Alex's Room).



## Pairing Pebble

Once the Bridge is connected, pair a Pebble by following the steps and then assign the Pebble to the child (e.g. Alex).

Hint

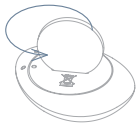
Try flipping the Pebble to identify it in the list.



1x CR2032  
Battery

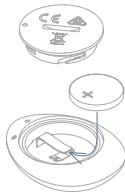
## Installing the battery

1.



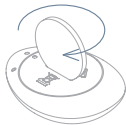
Remove the cover using a coin by rotating the cover anti-clockwise.

2.



With the + facing up, slide the battery into the Pebble under the clip.

3.



Return the cover using a coin by rotating the cover clockwise.

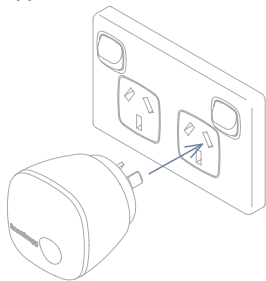
Failure to properly close the cover will result in damage to the Pebble during washing cycles.

Coin cell batteries can be harmful if ingested. Keep out of reach of children. Seek IMMEDIATE medical attention if swallowed.

# SmartBridge

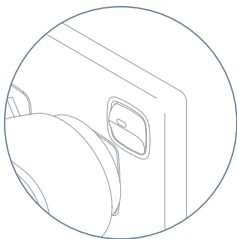
## Connecting SmartBridge

1.



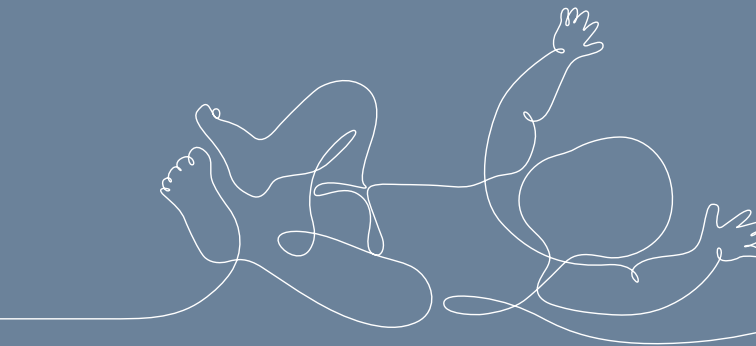
Plug the SmartBridge into a power outlet in your child's room. This should be less than 5 meters from where the child sleeps.

2.



Ensure the switch is in the **on** position.

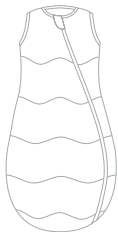
# Use



# Fitting the SmartPebble

Depending upon the temperature in your child's room, select a suitable SmartSleeper.

1.



Select a suitable outfit fitted with the internal pocket.

2.



Insert the Pebble by lifting the flap and inserting within.

3.



Ensure the Pebble is secure and orientated correctly.

Hint

If you would like some help selecting the most suitable bag you can use the in-app suggestion tool or you can refer to the SmartSnugg® website FAQ section.



# Using the Pebble

## Waterproof

The Pebble is designed to be able to go through washing machine cycles, meaning that you can leave it in the bag and do not need to set it up each time you want to put your child to sleep.

## Battery Life

The Pebble can be used for up to 9 months without changing the battery. It uses a CR2032 battery and has been designed to operate on extremely low power usage. We recommend changing the battery every 6 months to avoid losing data during a sleep session if the battery goes flat.

## Flexibility

It is up to you whether to use a single Pebble and move it between sleeping bags that you are using or have two or more Pebbles that you leave in bags.

## Colours

The Pebbles come in different colours. If you have more than one child that you are monitoring, this allows you to easily distinguish which child uses which Pebble. When you are monitoring through the

SmartSnugg App the colour of each child's Pebble will be displayed to make the process as easy to follow as possible.

## Multi-Use

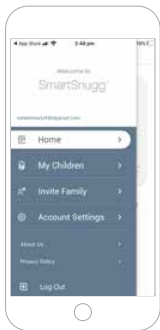
If you have more than one child being monitored in the same room, you will be able to use a single Bridge to transmit all of the data to your smartphone, provided that all of the Pebbles are within range of the Bridge when it is connected to the local WiFi network (the maximum distance will vary but is usually between 5 and 10 meters).

## Care Team Members

Once an account is created you can invite others to join, which will give them shared access to the app data. This may be used to enable a partner, grandparent or childminder to be able to use the system when they are putting the child to sleep. As a primary user you will be able to view active sleep sessions for your child (and receive notifications) even if another person is looking after the child at that time.

# Using the Application

## General



## Navigation

The Sidebar is accessible from most screens and can help navigate the app.



## Dashboard

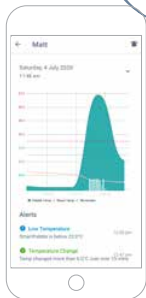
The Dashboard provides an overview of the room info, nightlight control and control over sleep sessions.

Hint

Take a moment to explore the SmartSnugg® App and discover all of the features.

Hint

If you have multiple children using SmartSnugg®, you can see both cards by swiping between.



## Reviewing Sleep Data

Keep track of your child's temperature, and events by reviewing the sleep session data.

Hint

The sessions where events have occurred will display a small coloured dot on the date in the calendar. Nights where no session occurred appear subdued.



## My Children

You can manage each child's specific settings and assigned devices in the My Children section of the app.

### Hint

You can choose different tones to chime for certain events. E.g. Tone 2 will chime when a Roll-Over event has occurred.

### Hint

Familiarise yourself with these alert colours in the 'Temperature Guidance' and 'Orientation Guidance' section of the manual.



### Alert Settings

In the Alert Settings section, you can view, change and add rules specific for you child.



### Alerts

When an alert is triggered, the sleep session card will display a colour to indicate an event. The device will also alarm to draw your attention to the event and a notification will be sent to your device. If you do not respond to the notifications you will receive an automated phone call to bring the alert to your attention.

## Sleep Sessions

### Hint

SmartSnugg® will provide recommendations based on the temperature and TOG rating.



### Start New Session

Begin a new sleep session by selecting the 'Start New Session' option at the bottom of the card.



### Define Comfort Level

Use the sliders to discover what outfit is most suitable for your child in their sleeping environment.



## Active Session

During an active session you will be able to view your child's current temperature, orientation and more.



## Rating Sleep

Rating the sleep session will provide insights that help SmartSnugg® improve the app and develop algorithms that learn what's working to give your child the best possible sleep.

### Hint

You can pause and resume the session at anytime. Lifting or moving the child during an active session may trigger alerts and cause disturbance.

# Temperature and Orientation



## **Too Hot**

The red colour will display when the child's temperature exceeds that specified in the temperature Alert Settings.

*These settings can be added or modified in the My Children>Alert Settings section of the SmartSnugg® App.*



## **Too Cold**

The blue colour will display when the child's temperature drops below that specified in the temperature Alert Settings.

*These settings can be added or modified in the My Children>Alert Settings section of the SmartSnugg® App.*



## **Orientation Change**

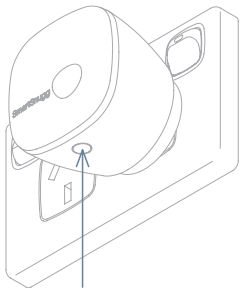
The orange colour will display when the child has turned over onto their stomach. Prolonged time spent in this position can lead to Sudden Infant Death Syndrome (SIDS)\*\*.

*This setting can be toggled on or off in the My Children>Alert Settings section of the SmartSnugg® App.*

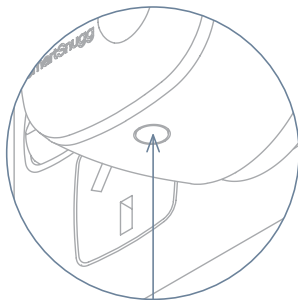
\*\* In order to reduce the risk of Sudden Infant Death Syndrome (SIDS), medical experts have recommended that children sleep on their backs until they are able to roll from their tummy onto their backs. It is your responsibility to judge when your child is at this stage.

# Troubleshooting

## Resetting the Bridge



To reset your Bridge, press and hold the button located on the underside of the Bridge for approximately 10 Seconds.



**Resetting the Bridge will restore factory settings and the existing Bridge configurations will be lost, meaning that upon the next use you will need to reconfigure the Bridge prior to use.**

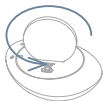


## Replacing the battery

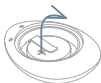


1x CR2032  
Battery

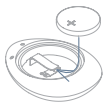
Remove the cover using a coin by rotating the cover anti-clockwise.



Remove the battery and dispose of correctly.



With the + facing up, slide the battery into the Pebble under the clip.



Return the cover using a coin by rotating the cover clockwise.



Failure to properly close the cover will result in damage to the Pebble during washing cycles.



Coin cell batteries can be harmful if ingested. Keep out of reach of children. Seek IMMEDIATE medical attention if swallowed.

# Specifications



# Technical Specification

## SmartPebble

|                                      |  |
|--------------------------------------|--|
| Product Name                         | SmartPebble  |
| Model                                | SS01PBL  |
| Dimensions                           | 48mm x 38mm x 11.3mm   |
| Weight                               | 13g  |
| Battery Type                         | CR2032 x 1   |
| Battery Life                         | ~9 Months  |
| Bluetooth®                           | Bluetooth® NRF52810; 4.2 Protocol  |
| Transmission Dist.                   | Typical range of 10m from Bridge   |
| Bluetooth® Data Rate                 | Beaconing Mode.<br>Transmission every 1s.<br>Temperature measured and reported every 30s<br>Accelerometer measured and reported every 1s     |
| Water Resistance                     | IP67 (safe for full immersion in front and top loader washing machines).   |
| Lifetime of Electronics              | ~10000h  |
| Operation Conditions:<br>Temperature | Normal Operating conditions: 0°C to +50°C<br>Storage conditions: -25°C to +85°C<br>Supported measurement range is 150°C – 450°C<br>+/-0.50°C |
| Humidity Range                       | 10% - 95%  |
| Pressure Range                       | 0-3000m / 0-9000ft MSL   |
| Battery Storage                      | -25°C to +60°C   |

## SmartBridge

|                                      |  |
|--------------------------------------|--|
| Product Name                         | SmartPebble  |
| Model                                | SS01BDG  |
| Dimensions                           | 56mm x 56mm x 68mm   |
| Weight                               | 79g  |
| Power                                | 85-250C / 50Hz/60Hz, 3W  |
| Wifi                                 | Protocol 802.11 b/g/n  |
| Bluetooth®                           | Bluetooth® NRF52810; 4.2 Protocol  |
| Transmission Dist.                   | Typical range of 25m   |
| Data Rate                            | Transmission to cloud every 1s via Wifi router   |
| Lifetime of Electronics              | ~10000h  |
| Operation Conditions:<br>Temperature | Normal Operating conditions: 0°C to +50°C<br>Storage conditions: -25°C to +85°C<br>Supported measurement range: 150°C – 450°C<br>+/-10°C |
| Humidity Range                       | 10% - 95%  |
| Pressure Range                       | 0-3000m / 0-9000ft MSL   |

## App Compatibility & Requirements

|                      |  |
|----------------------|--|
| Apple Devices        | iPhone® or iPad® with iOS 10.1 or later  |
| Android Devices      | Android 4.4 KitKat or later  |
| Wifi                 | This system requires a home Wifi network with reliable internet access to operate.<br>Only 2.4GHz Wifi networks are supported. |
| Wifi Authentication: | WPA Personal (WPA/WPA2 PSK)  |

# Symbol Definition

## Disposal And Recycling Information



This symbol indicates that your product must be disposed of properly according to local laws and regulations. When your product reaches its end of life, contact SmartSnugg® or your local authorities to learn about the recycling options.



# Warranty



# Product Warranty

SmartSnugg® Pty Ltd hereby guarantees this product (excluding the SmartSnugg® App) to be free from any defects in materials and workmanship for a period of 12 months from the original date of purchase, to be verified by a valid sales receipt. This guarantee is limited to the supply of a replacement product. This guarantee does not cover defects that have been caused by: improper use of the product; tampering with the product; accidental damage to the product;

or damage to the product caused by a third party. This guarantee does not cover batteries that are used in the product. SmartSnugg® Pty Ltd reserves the right to update the product firmware and the SmartSnugg® App from time to time, it is the responsibility of the customer or the user to update the firmware and App software and any defects caused by a failure of the customer to so update will not be covered by this guarantee.



# Legal





# Regulatory Information

This device complies with the following standards:

## **Certification for Australia**

AS/NZS CISPR 32, AS/NZS 4268, ACMA EMR2014 (RPS3), AS/NZS 60950-1



# Disclaimer

SmartSnugg® is not a medical device. Your SmartSnugg® is designed to be used as an aid and not as a substitute for responsible parenting and supervision of your child.

It is not intended to be used a diagnostic tool and no claims are made that using SmartSnugg® will prevent Sudden Infant Death Syndrome (SIDS). Customers use the SmartSnugg® at their own risk and SmartSnugg® Pty Ltd, SmartSnugg® IP Pty Ltd, its distributors, agents, employees, officers and directors shall not be liable for any loss, damage or defect arising from or in connection with the use or manufacture of SmartSnugg®, including loss, damage or injury suffered by the customer, user or any other person,

whether arising out of any misuse of the product or any defect in the device, a failure of any components of the device, any defects (whether temporary, intermittent or permanent) relating to the SmartSnugg® App, any failure of the WiFi or Bluetooth communications systems, or howsoever arising.

Any other warranties or guarantees not expressly set out in this document or required by law are hereby excluded to the fullest extent permitted by law.

## PRIVACY STATEMENT

Any information that you provide to us in setting up your account will be securely held and will not be sold to third parties. We may share de-identified data with research organisations for the purposes of furthering SIDS research or other health related infant research. SmartSnugg will share this information on a non-profit basis.



SmartSnugg®

[smartsnugg.com.au](http://smartsnugg.com.au)