

Downloaded from www.hypoband.com

FULL VERSION MANUAL AND POLICIES

Hypoband : Cold Sweat Alarm for diabetics.

Model : HB-1



A Product by Geob International (PATENT PENDING)

Regulatory Information

For your Safety

Before charging or using your Hypoband, please read the important product safety and legal information provided with your product.

Declaration of Conformity

Geob International has declared that the Hypoband is in conformity with the provisions of Council Directives EN55022, EN55024 and EN60950 .

European Union Directives Conformance Statement

The following CE compliance information is applicable to Hypoband that carry one of the following CE marks.

Inspections and Test Reports

The unit has gone through careful visual inspection, mechanical and electrical testing as well as reliability test to ensure product good working condition, reliability and safety.

Statutory Obligations

This limited warranty must be read subject to any statutory provisions that imply warranties or conditions into this Limited Warranty that cannot be excluded, restricted or modified except to limited extend. If such statutory provisions apply, to the extent to which Geob International is able to do so, its liability under those provisions will be limited, at its option to, in the case of goods; the replacement of the goods, or the supply of equivalent goods, the repair of the goods, the payment of the cost of replacing the goods or acquiring the equivalent goods, or the payment of the cost of having the goods repaired, and in the case of services; the supplying of the services again or the payment of the cost of having services supplied again.

NOTE! Your product is a sophisticated electronic device. Geob International strongly encourages you to familiarize yourself with the user guide and instructions provided with and for the Product. Please also note that the Product might contain high precision sensors and other parts, which could be scratched or otherwise damaged if not handled very carefully.

All warranty information, product features are subject to change without notice

Product Disclaimer:

This product is not meant to diagnose, treat or cure or prevent any disease. It is purely a cold sweat alarm that works on remote connectivity. Kindly take note that Bluetooth range is typically within a 10 meter radius coverage. Do not use the Hypoband exceeding this range from the smartphone.

The product discussed in this document is warranted in accordance with the terms of warranty, statement and usage. Performance of the product is dependent on the adherence to guidelines of usage. Since implementation by customers may vary, the suitability of specific configurations and applications must be determine by the customer and is not warranted by Geob International.

Certain features, services and applications are network dependent and may not be available in all areas. Additional terms, conditions and/or changes may apply. All features, functionality and other product specifications are subjected to change without notice or obligation. Contact your service provider for more details.

Description of the product

Hypoband (patent pending) is an intelligent Bluetooth interface; smartphone device that measures cold sweat. It works on Android and triggers for help via a phone call or short message service (SMS) when the threshold limits are met or the panic button is activated. It also has a standalone alarm mode.

Important : For indoor use only and non- water resistance.

Technical Details of Hypoband (HB-1)

Certification: CE (EN55022:1998, EN55024:1998, EN60950)

Sensor: Honeywell

Bluetooth Ver : 3.0

Android : 2.0 and above

Body Material: Polypropylene medical grade

Band Material: Nylon with Velcro (Fits typical

Size (Body): Approx 50 x 30 x 15mm

Box size : Approx 155 x 85 x 65mm

Weight (Case and Band): 5.0 oz

Battery: 3.7 Volts Lithium Polymer (Rechargeable)

Adaptor Charger : 3 Pin Switched Mode Power Supply (SMPS)



- Accurately measures and display perspiration (%RH) and skin temperature (°C)
- 3 Unique features on calling or short message system (SMS) to caregivers or local alarm mode
- Medical grade plastic with breathable velcro wrist strap
- Rechargeable batteries via USB port. (±12 hours battery life per 3-4 hour charge)
- 1 year international warranty against manufacturer defects

Technical Details of Power Adaptor (EN 60950:2000 CE Certified)

1] Scope

The document details the electrical, mechanical and environmental specifications of an Switched Mode Power Supply (SMPS). This power supply provides 5.0W of continuous power output.

2] Input Characteristics

Input Voltage and Frequencies

The range of input voltage is from 90Vac to 264Vac single phase.

| | Minimum | Normal | Maximum |
|-----------------|----------------|---------------|----------------|
| Input Voltage | 90Vac | 100Vac~240Vac | 264Vac |
| Input Frequency | 47Hz | 60Hz/50Hz | 63Hz |

Input AC Current/AC

0.2A_{mac} @ 115 Vac input and Full load

0.2A_{mac} @ 230 Vac input and Full load

In-rush Current (cold start)

30A_{max}@220V_{ax} input

Average Efficiency

While input 115Vac and 230Vac, the average efficiency is more than 68.17%. The test point is at 25%, 50%,75% and 100% max load respectively.

No-load input Power Dissipation

Input 90Vac or 264Vac, output no load, the input power loss is less than 0.30W.

3. Output Characteristics

Static Output Characteristics <V_o & R+N>

| Output Rail | Rated Load | | Output Range | R+N | Remark |
|--------------------|-------------------|---------------------------------|---------------------|----------------|---------------|
| | Rated Load | Range CV : 3.0~4.75V | | | |
| +5.0V | 1.0A | 1.0~.2A | 4.75~5,25V | 80mVp-p | |

1. **Load range CV : Under the input voltage 100Vac~240Vac**
2. **Under the input voltage 100Vac~240Vac**

USER MANUAL

Chapter 1: How to use the Hypoband

Important Notice :-

- Download and install the Hypoband App from our website or play store.
 - Always ensure Bluetooth pairing is established between the Hypoband and smartphone, all the time during use. See the LED lighting for guidelines.
 - Always ensure that the Hypoband and smartphone is fully charged prior to use.
 - Ensure that the Hypoband is launched and the display of Relative Humidity (RH) and Temperature is displayed on the smartphone screen before going on sleep mode.
 - Kindly take note that Bluetooth range is typically within a 10meter radius coverage. Do not use the Hypoband exceeding this range from the smartphone.
 - Ensure that the Hypoband is worn securely on the wrist. Temperature of the skin is typically $32^{\circ}\text{C} \pm 2$, any readings dissimilar to this could mean, it is not worn properly.
- 1.0 Hypoband works as a cold sweat alarm that is paired to an Android smartphones.



1. Panic Button
2. USB Port (For Charging)
3. On/Off button and LED color identification
4. Body (Medical Grade Plastic)
5. Nylon strap with Velcro
6. Reset Button
7. Sensor Port

First time set-up for your Hypoband

1.1 Download and Install the Hypoband App from Play Store or from the Hypoband website

- 1.1 Press and Hold the ON/OFF button for 5 seconds till you see a flickering red color
- 1.2 Wait for a few seconds for the blue LED light to start blinking
- 1.3 Once the blue LED light start blinking, press and hold the ON/OFF button for around 6 seconds to engage into pairing mode.
- 1.4 You will then, see the LED light to be in alternating Blue and Red
- 1.5 Now go to the Bluetooth setup under your smartphone
- 1.6 Make sure the Bluetooth is ON
- 1.7 Next scan for device.
- 1.8 You will see “Hypoband” in the scan results.
- 1.9 Press and hold the Hypoband wording till the option appears.
- 1.10 Select pair and connect.

For action 1.1 to 1.10, it is done on the first time of pairing the Hypoband to the smartphone. These steps need not be repeated for future usage of the Hypoband and Smartphone unless you change either one of the two.

- 1.11 Trigger the Hypoband App and wait for the Hypoband to pair to the smartphone.
- 1.12 Once it is paired, the Relative Humidity (sweat level in %) and temp in Degrees Celsius will appear. (Figure 2). The blue LED will now blink once every 5 seconds.
- 1.13 You can now go into the setup mode to set your caller and SMS customizable data, by pressing “setting: in Figure 2 which will bring you to a new screen (Figure 3)



Figure 2

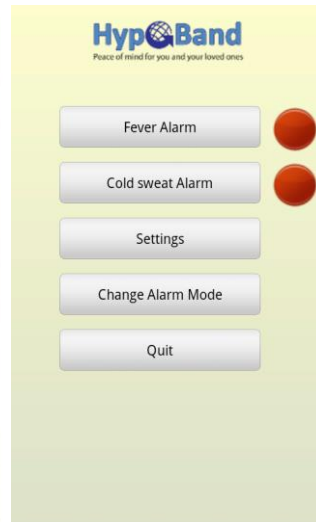


Figure 3

****Kindly take note that Fever Alarm is disabled for this model.**

Figure 4

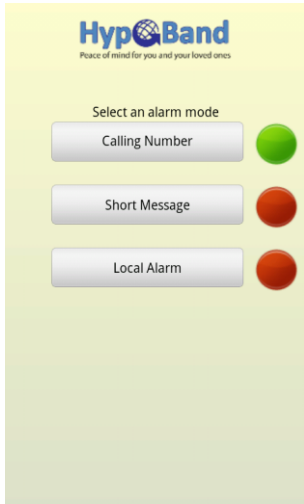


Figure 5

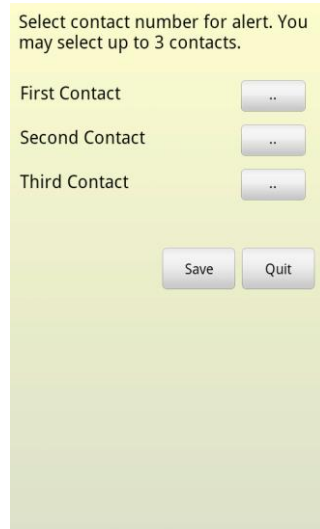


Figure 6

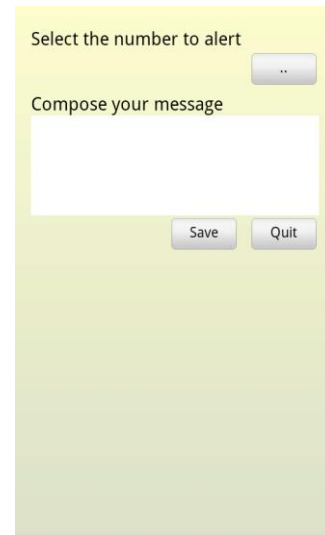










Figure 4 : Select which mode you would like the Hypoband to trigger that is calling number, sms or local alarm

Figure 5 (calling number)- You can select a maximum of three persons or caregiver to call selected from your phonebook

Figure 6 (Short message) – You can prewrite your short message using a qwerty mode as per figure 7. Make sure to select the person to short message prior to writing your pre-alert message.

Light Indicator Guidelines

| LED | Flashing Pattern | Status |
|--|---------------------------|---|
| Red, Blue  | Interchange | The HypoBand is searching for signal or in pairing mode. |
| Red  | Flash 1x in 3 seconds | The HypoBand is undercharged (low battery). |
| Blue  | Turn ON | The HypoBand is fully charged. |
| Red  | Flash 1x in 1 second | The HypoBand is at charging mode. |
| Blue  | Flash 1x in 5 seconds | The HypoBand has connected to the smartphone via Bluetooth |
| Blue  | Flash 1x in 1 seconds | The HypoBand is NOT paired to the smartphone but is on ON mode. |
| Purple  | Flash 1x in 1 second | The caregiver has notified the user. |
| Purple  | Flash 2 times in 1 second | The HypoBand has triggered. |

Chapter 2: Functionality Description

2.1 The Hypoband is design primarily for Diabetics having Hypoglycemia attacks with cold sweat being the predominant symptom.

Cold Sweat: "Cold sweat" refers to sudden sweating that doesn't come from heat or exertion.

Cold sweat is the indication of the body's response to stress, called a fight or flight response.

It's very important to recognize cold sweats when providing first aid. Cold sweats can be a sign of significant injury or illness

2.2 It detects cold sweat by measuring and displaying the temperature and humidity levels of the skin, whereupon upon the onset of cold sweat, a triggering call/sms or alarm will be made by the smartphone in which the Hypoband is paired too.

2.3 It comes with a panic button hence may be used for the old, sick and aged in case of an emergency, be it a fall, burglary, fire, etc, that needs response and aid to be given to them.

“Hypoband detects the skin’s Temperature in degree Celsius and Sweat Levels in Humidity % of the person wearing it. If it is not worn, then it will be measuring the surroundings or environment”.

2.4 The Hypoband App needs to be pre-installed to the smartphone (Android) prior to using the Hypoband.

The App has to be launched after the Hypoband is on and paired the smartphone. See 1.2 to 1.11

The smartphone will be making the call, sms or local alarm triggering upon being triggered by the Hypoband.

Go to www.hypoband.com to download the Hypoband App.

****Caution : The Hypoband cannot work if the smartphone is not pre-installed with the Hypoband App**

The Hypoband has a rechargeable battery which can be charged via the adaptor charger given or can be charged via a laptop (use the given USB cable). *Always ensure that the unit is charges at all times.

2.5 Fever

Currently this option is disabled.

2.6 Panic or help button

In case of a fall or emergency amongst the patients or aged citizens, the panic button can be triggered (Press and hold for more than 2 seconds). This will trigger the Hypoband hence, by- passing the cold sweat detection and directly triggering for help depending on mode set.

Chapter 3: Troubleshooting

Troubleshooting the Hypoband

- If there is no LED signal at all, check whether the Hypoband is turn ON or not. Also check the battery for power, to make sure, try charging it. Refer to the light indicator guidelines (LED table illustration)
- If the Hypoband is not ON or paired to the smartphone, the App will not work (an error message would be shown or the App will “hang” displaying zero reading for Temp and RH %(This is to prevent wrongly input settings on the Hypoband)
- Reset the Hypoband (via the reset button) if the unit is not working. *(Tip:Use a blunt pin to reset the button and do not press too hard)*
- Alternatively, terminate the android task for the Hypoband App and launch the App again, if the unit is not working
- If the port sensor is too wet and shows 100% RH, allow the moisture to dry before using again.

Troubleshooting Checklist

If you experience difficulties with the RH and TEMP measurement, please read the following before contacting Geob International (www.hypoband.com) under technical division

1. Is the Hypoband worn correctly? Do not wear the Hypoband too tight or loose; make sure that your index finger can snug beneath the strap.
2. Is the battery of the Hypoband fully charged? Please see the light indicator guidelines table
3. Is the Hypoband paired to the mobile phone? Please see the light indicator guidelines table
4. Is the mobile phone fully charged? Please ensure your mobile phone is not low in battery
5. The Hypoband does not work? Make sure you have downloaded the Hypoband app to your smartphone and have paired the Hypoband to it.
6. The Hypoband does not work? Make sure you are within the Bluetooth coverage range of the Hypoband and the smartphone which is typically 10 meters.

Chapter 4: Maintenance

4.1 The Hypoband is sensitive to water especially the sensor port (7) Do not intentionally let water in the port.

4.2 Should water enter the sensor port, do not ON the Hypoband, instead leave the unit to dry.

4.3 The casing of the Hypoband is made of medical grade plastics, hence do not use any alcohol or solvent to clean the body. Just use a damp cloth soaked in plain water will do.

Chapter 5: Safety Precautions

Battery Use and safety

The Hypoband uses a non-removable battery and should only be replaced by the authorized service facility, and any attempt to remove or replace the battery may damage the product.

Kindly, follow the below guidelines with reference to usage of the Hypoband.

DON'T

- Don't disassemble, crush, puncture, shred or otherwise attempt to change the form of your battery.
- Don't let the Hypoband come into contact with liquids*. Liquids can get into the unit's circuitry leading to corrosion and malfunction.
- Don't place your Hypoband near a heat source*. High temperatures can cause the battery to swell, leak or malfunction.

- Don't use the Hypoband during swimming, exercising or any conditions where water or excessive moisture will come into contact with the sensor port.
- Don't leave the Hypoband in your car at high temperatures*.
- Don't drop the Hypoband as dropping it on hard surfaces can potentially cause damage.

* Do contact your service provider if the Hypoband has been damaged by dropping, liquids or high temperature

Battery Charging

Notes for charging your product's battery

- During charging, keep your battery and charger near room temperature for efficient battery charging.
- New batteries are not fully charged.
- New batteries or batteries stored for a long time may take more time to charge.
- Hypoband batteries and charging systems have circuitry that protects the battery from damage from overcharging.

Children

Keep the Hypoband and its accessories away from small children.

These products are not toys and may be hazardous to small children, for example

- A choking hazard may exist for small, detachable parts
- The charger wire harness and plastic wrapper may cause choking hazard as well to small children. Please practice caution and proper disposal of plastic wrappers.

Chapter 6: Regulatory Information

You Hypoband are designed to comply with national and international regulatory requirement. For full compliance statements and details, please refer to the regulatory information in your printed product guide.

Use and Care

To care for your Hypoband, please observe the following.

Liquids

Don't expose your Hypoband to water, rain, extreme humidity or other liquids. If it does get wet, leave it to dry and don't try to accelerate drying with the use of an oven or fryer as it may damage the circuitry.

Extreme hot or cold

Don't store or use your Hypoband in temperature below -10°C (14°F) or above 60°C (140°F).
Don't recharge your Hypoband in temperatures below 0°C (32°F) or above 45°C (113°F).

Microwave

Don't dry your Hypoband in an oven or microwave.

Dust and Dirt

Don't expose your Hypoband to dust, dirt, sand, food or other inappropriate materials.

Cleaning Solutions

To clean the Hypoband, use only a damp cloth soak in water. Do not use alcohol or other cleaning solutions or solvents.

Shock and Vibration

Don't drop the Hypoband.

Protection

To help protect your Hypoband, always make sure that the connector covers are closed and secure

Recycling

Hypoband & Accessories

Please do not dispose the Hypoband or electrical accessories with your household waste, or in a fire. These items should be disposed of in accordance with the national collection and recycling schemes operated by your local or regional authority.

Packaging and Product Guidelines

Product packaging and product guides should only be disposed in accordance with national collection and recycling requirements. Please contact your regional authorities for more details.

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Caution : Geob International does not take responsibility for changes /modification to the Hypoband



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