

**DRAFT**  
**CONFIDENTIAL**

**INSTRUCTION MANUAL FOR DryBuddyFLEX**

**INTRODUCTION**

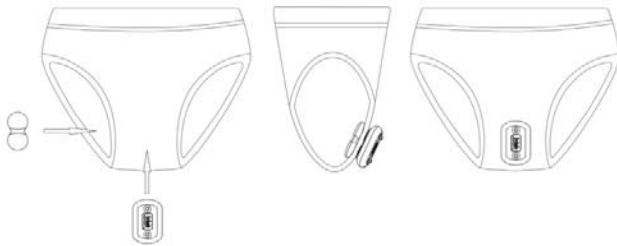
The DryBuddyFLEX consists of three important parts:

1. The DryBuddyFLEX Sensor,
2. The DryBuddyFLEX Remote, and
3. The DryBuddyFLEX Receiver.

**THE DryBuddyFLEX SENSOR**

The Sensor is the part that detects urine or other body fluids when used appropriately. To sense when a patient urinates, the user has the flexibility to use the Sensor in one of two ways:

1. The Sensor is attached to standard cotton briefs using the magnets on one side of the Sensor and a magnetic Cap which clamps the sensor to the briefs at the point of urination.



2. The Sensor is attached to special DryBuddy wired briefs using the snaps on one side of the Sensor. These wired briefs are used in place of standard briefs.



Depending on how the Sensor will be used, a Cap and/or special wired Briefs will be needed to allow the Sensor to detect urination.



**Using the Sensor with its Cap**

The Sensor is attached to standard cotton briefs at the point of urination by placing the Cap on the inside of the briefs (touching the patient's skin), and the magnets of the Sensor opposite the Cap and on the outside of the briefs. In the case of male briefs that have a “flap” (opening for urination) the Sensor should be placed towards the bottom of the opening and on the inside layer of cloth.



When the patient urinates, the urine is absorbed by (soaks into) the cotton briefs. When the material of the briefs between the two magnets is wet, the sensor will be triggered and a wireless ON signal sent to the Receiver. Removing the Sensor’s magnets from the wet briefs stops further transmission.

**Using the Sensor with DryBuddy Wired Briefs**

After the patient wears the DryBuddy wired Briefs, the Sensor's male snaps are inserted into the female snaps of the Briefs till they are firmly attached, and the Velcro on the briefs attached around the Sensor to help keep it firmly in place.



When the patient urinates, the urine is absorbed by (soaks into) the cotton briefs. When the material of the briefs between two adjacent wires is wet, the sensor will be triggered and a wireless ON signal sent to the Receiver. Removing the Sensor from the wet briefs stops further transmission.

**General Note:** When the Sensor senses wetness, it transmits the ON signal for a fraction of a second. This is sufficient to trigger the wireless DryBuddyFLEX Receiver(s) and generate the alarm. The Sensor stays in a sleep state for two minutes, after which time it will again transmit the ON signal if it senses wetness. This will be repeated two (2) times, after which the sensor will stop sending any further ON signals. However, to sense the urine and transmit a signal, the Sensor must sense a quick increase in the wetness level for about one second to be certain that the wetness is being caused by urine and not perspiration or some other gradual factor. The Receiver(s) only need the first ON signal from the Sensor to cause it/them to generate an alarm, and will continue to generate the alarm until the Receiver(s) is/are turned OFF. Further transmission by the Sensor is not needed, and it is advisable to disconnect the sensor from the wet briefs so that the Sensor's battery power is not wasted with repeated transmissions for the same incident. We recommend that the sensor be promptly removed from the wet briefs. Before washing/cleaning the Sensor, please be certain to turn the entire system OFF by pressing the Remote's OFF switch twice (2 times), or manually pressing the MPS button on the Receiver.

## **THE DryBuddyFLEX REMOTE**

The purpose of the DryBuddyFLEX Remote is to make using the DryBuddyFLEX system convenient for the caregiver/parent, and thereby help the patient (child).

The DryBuddyFLEX Remote is used to remotely turn the Receiver(s) ON to their READY state. When the Receiver(s) are OFF, pressing the Remote ON button once, will turn ALL Receivers ON to their READY state.

When the alarms are sounding, pressing the OFF button on the Remote once will turn ALL alarms OFF. This applies to ALL alarms attached to ALL Receivers. The Receivers are now silent but in their READY state.

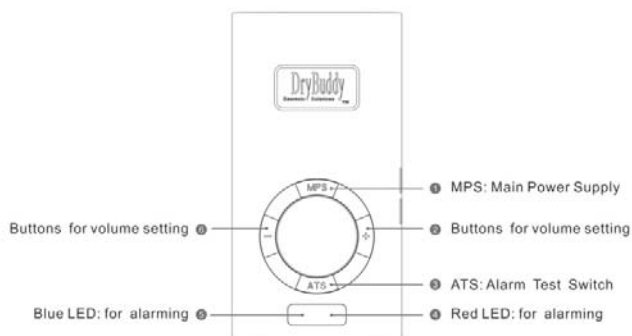
When the Receivers are not sounding their alarms, pressing the OFF button on the Remote will turn ALL receivers completely OFF. The Receivers will need to be turned ON to their READY state to be used further.

## **THE DryBuddyFLEX RECEIVER**

The DryBuddyFLEX Receiver receives signals from the DryBuddyFLEX Sensor, DryBuddyFLEX Remote, and other DryBuddyFLEX Receivers that are part of the installed DryBuddyFLEX system. Each DryBuddyFLEX system uses a specific and original code associated with its Sensor and Remote. Each DryBuddyFLEX Receiver in the system is pre-set to link with (be synchronized with, or work with) this specific Sensor and Remote. If the Sensor or Remote are changed, or if any Receiver is changed or added to the system, the Receiver(s) must be re-set to link with the specific Sensor and Remote that are being used.

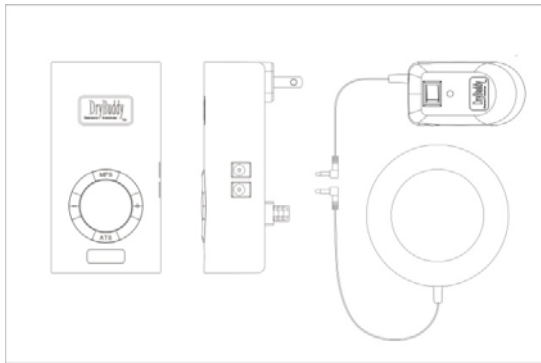
### **DryBuddyFLEX Receiver Setup:**

Plug the receiver into a 110V-120V AC 60Hz power outlet. This is the typical wall power outlet found in homes and buildings in the U.S.A, Canada, and some other countries. The Receiver will be OFF, and no LED lights will be on.



1. To turn the Main Power Supply (MPS) on, manually press the MPS switch on the Receiver once, or press the ON button at the bottom of the Remote. A single beep will sound, and the LED at the bottom right of the Receiver will turn Blue. This single Blue light indicates that the Receiver is in its READY state, and can receive the Sensor signal which would turn its alarm(s) on.
2. To turn the MPS off, manually press the MPS switch once, or press the OFF button at the top of the Remote. The Blue light on the Receiver will turn off. The Receiver is now OFF, and will not receive Sensor signals or activate any alarms.

3. To set the Volume of the Receiver's built-in speaker, press the + button (on right side) or the – button (on left side). The speaker/alarm will sound. Each time the + button is pressed, the volume increases by one step till its maximum volume. Each time the – button is pressed, the volume decreases by one step till its minimum volume. Pressing the MPS button, or the OFF button on the Remote, takes you out of the Volume set program and back into the READY state with the Blue light showing.
4. Accessory alarms can be added to each DryBuddyFLEX Receiver. Each Receiver has two 12V DC 500ma power outlets on the right side. Any accessory which works with this power and has a suitable power plug can be attached. As examples, DryBuddy provides as optional accessories a Bed Shaker and an Audio Alarm, which use these 12V power outlets and can be set on or next to the patient's bed. These alarms would supplement the alarm sounding from the Receiver. When the Receiver's alarm is turned ON or OFF, these attached alarms will also be turned ON or OFF.



5. The Alarm Test Switch (ATS) is used to test the Receiver's alarm and all attached alarms, by providing power to them and turning them all ON. The ATS switch will need to be depressed for a few seconds. At this time, the LED on the lower left of the Receiver will blink Red. The accessory audio alarm volume control can be adjusted at this time. When in the ATS mode, the built-in speaker's volume cannot be adjusted, and this speaker's volume must be adjusted when out of the ATS mode by using the + or – button as described in 3. You must exit the ATS mode by pressing the MPS button once or the Remote OFF button once. This will again place the Receiver in its READY state, and the Blue LED will light.
6. Multiple (additional) Receivers can be used with the DryBuddyFLEX system. Additional Receivers may be placed in the caregiver's (parent's) room, or elsewhere in the house to alert the caregiver. A maximum of five (5) Receivers can be used in a DryBuddyFLEX system and synchronized to the same Sensor and Remote. Each Receiver can have its volume set as described in 3. To test or set the volume of its accessory alarms, use its ATS button.
7. Note for the MPS button: Pressing the MPS button ONLY turns the local Receiver ON or OFF, placing that Receiver in its READY state or turning it OFF.
8. Note for the ATS button: Pressing the ATS button turns ON ALL alarms for ALL Receivers. Pressing the MPS button on a Receiver only turns OFF the alarms at that single Receiver. To manually turn OFF the alarms on ALL Receivers, each Receiver's MPS button must be pressed.

9. To turn alarms OFF: When the alarms are ON, to switch ALL alarms OFF on ALL Receivers, it is necessary to use the OFF button on the Remote. Individual Receivers can only be turned off by manually pressing the MPS button on that Receiver.

### **General Information about DryBuddyFLEX Receivers:**

Maximum Number of Receivers in a DryBuddyFLEX system: Five (5).

The typical wireless transmission range of a Receiver in a house is 110 feet (33 meters). The actual transmission range can vary, be higher or lower, depending upon the materials in the space between adjacent Receivers. Metal objects in/on the walls, furniture, appliances, etc. in the direct line between Receivers can reduce the transmission range.

DryBuddyFLEX Receivers in a system interact with one another interactively, with no constraints or priorities for specific receivers. If each receiver is within transmission/reception range of any other receiver in the system, all receivers will function properly. Consequently, for the system to receive a signal from the Sensor or the Remote, having any one Receiver within receiving range is satisfactory.

### **USING THE DryBuddyFLEX RECEIVER AND INITIAL SYSTEM SETUP:**

If you receive the Sensor, Remote and a Receiver in one pre-packaged box, all of these items will have been synchronized before shipping. Additional or new Receivers, Sensor or Remote (packed in separate boxes) will need to be synchronized so that all parts of the DryBuddyFLEX system will work properly together. This synchronizing procedure is described in the later section of this instruction manual "SYNCHRONIZING THE DryBuddyFLEX SENSOR, REMOTE AND RECEIVER(S)."

1. Test that the Sensor, Remote and Receivers are synchronized between themselves by placing the Receiver(s) in wall outlets in the same room
2. Set the volume of each receiver to the desired level.
3. Turn all of the Receivers to their READY state by pressing the ON button on the Remote. Every Receiver's Blue LED should light. This indicates that the Remote is synchronized with the Receivers.
4. Test that the Receivers can transmit/receive signals from one-another by pressing the ATS button on one of the Receivers. If all receiver alarms sound and they show a blinking Red light, the Receivers are synchronized.
5. Turn them OFF by using the OFF button on the Remote. The alarms should stop, and every Receiver will show a Blue LED.
6. Take the Sensor, and electrically short the two magnets (or the two male snaps on the other side of the Sensor) by laying a clean conductor such as a key across both magnets or both snaps.

This short needs to be in place for about one second or a little more before the Receiver(s) will respond. If the Receivers' alarms sound, the Sensor is synchronized with the Receiver(s).

7. Once you have verified that all items are synchronized and work, take the sensor to the location/room where it will be used. Typically, this is where the patient (child) will be sleeping. Place a Receiver in a wall power outlet so that the patient will hear the alarm and wake up. Set the Receiver into its READY state by pushing the MPS button or pressing the On button on the Remote. Verify that the Receiver will receive the Sensor's transmission by shorting the two magnets or the two snaps on the sensor. The Receiver's alarm should sound.
8. If you are using a second or additional Receivers, set one in the room where the caregiver (or parent) will be sleeping, and plug it into a wall outlet. Other Receivers can be plugged into wall electric outlets where needed. Take the remote to the spot where the caregiver is likely to be when using the Remote. Turn the Receiver(s) alarms on by pressing the ATS button on a Receiver, or shorting the Sensor. All Receivers should sound. Pressing the OFF button on the Remote should turn all alarms OFF.

The DryBuddyFLEX system has now been set up and is ready for use.

## **DryBuddyFLEX SPECIFICATIONS**

### **Sensor:**

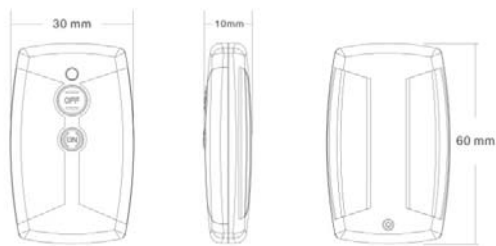
- Can be used as a "magnetic attachment" sensor when used with its magnetic cap.
- Can be used as a "wired briefs" sensor when used with the DryBuddy wired briefs.
- Typical transmission distance within a house is about 80 feet (25 meters). The actual successful transmission distance between the sensor and receiver can vary depending on what materials and objects are between the sensor and receiver.
- Sealed unit with non-replaceable battery.
- Designed and tested to transmit over 3,000 times under typical and proper use.
- FCC and IC certified. RoHS compliant.



### **Remote:**

- Typical transmission distance within a house is about 80 feet (25 meters). The actual successful transmission distance between the remote and receiver can vary depending on what materials and objects are between the remote and receiver.

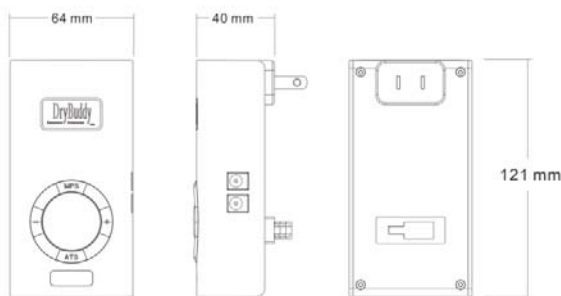
- Replaceable CR2032 3-volts battery.
- FCC and IC certified. RoHS compliant.



weight: 17 gr

### **Receiver:**

- Typical transmission distance between two Receivers within a house is about 110 feet (33 meters). The actual successful transmission distance between two Receivers can vary depending on what materials and objects are between the Receivers.
- Uses 110V-120V 60Hz AC power.
- Has two (2) switched power outlets each providing 12V DC 500ma. Outlet sockets are 1.5mm x 2.5mm barrel sockets, internal positive.
- FCC and IC certified.
- ETL (U.S.A. and Canada) certified. RoHS compliant.



weight: gr



## **SYNCHRONIZING THE DryBuddyFLEX SENSOR, REMOTE AND RECEIVER(S)**

### **Synchronizing the Receivers with Each Other:**

Receivers only need to be synchronized with one-another if you are using more than one receiver. If you have only one Receiver, you may skip over this section.

You will have to synchronize the receivers if:

1. You have more than one Receiver, and they have not been synchronized at the factory.
2. You get a new/replacement Receiver, either as a purchase or an exchange for a defective Receiver.

To synchronize the Receivers:

1. Attach all Receivers to a power source. Doing this in one room will be more convenient.
2. Press the MPS switch on every Receiver, so that each Receiver beeps once and a Blue LED lights on every Receiver. Now you know that that all Receivers are in the READY state.
3. For each Receiver, press the MPS and ATS switches simultaneously (at the same time). Keep them pressed for a few seconds till you hear one or more beeps and the Blue LED starts flashing.
4. For the first Receiver there may only be one beep. For the second or subsequent Receivers there may be more than one beep, and the Blue LED starts flashing.
5. After about one minute, the Blue LEDs will stop flashing. Note that all Receivers need to be synchronized within this one minute. The synchronization can also be terminated earlier by pressing the MPS button once on every Receiver so that the Blue LED no longer flashes.
6. The Receivers are now synchronized with each other.

### **Synchronizing the Sensor and Remote with the Receiver(s):**

You will need to synchronize the Sensor and/or the Remote with the Receivers if:

1. The Sensor and/or Remote were not synchronized with the Receiver(s) at the time of purchase.
2. You get a new or replacement Sensor, Remote and/or Receiver.

Do the following for each Receiver that requires to be synchronized with the Sensor/Remote, one at a time:

1. Connect the Receiver to the 110V-120V AC power source. Press the MPS button on the receiver. You will hear a beep and the Blue LED will light for the Receiver.
2. On the Receiver, press the + and – buttons simultaneously (at the same time) for a few seconds, till you hear a beep and see a Green flashing LED.
3. While the Green light is flashing you can synchronize the Remote and/or the Sensor.
4. To synchronize the Remote, while the Green light is flashing on the Receiver, press the ON or OFF button on the Remote. The Receiver will beep once. If you have finished with the synchronizing, press the MPS switch on the Receiver once, and you will hear one or more beeps and the Blue LED will light.
5. To synchronize the Sensor, while the Green light is flashing on the Receiver, short the Sensor by placing a clean key or similar conducting material across the two magnets or across the two snaps on the other side of the Sensor. The Receiver will beep once. If you have finished with the synchronizing, press the MPS switch on the Receiver once, and you will hear one or more beeps and the Blue LED will light.

Your Sensor and/or Remote is now synchronized with this Receiver. Please repeat this process with all Receivers.

**FCC Warning:**

**The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.**

**This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.**

**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, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

**IC Note:**

**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 harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**