

DryBuddyFLEX 3 System Parts

Sensor

DryBuddy's wireless sensor uses a patented magnetic attachment for use with regular cotton briefs. The magnetic attachment is intuitive and easy, and can be snapped into place on briefs and removed with great ease, even in the dark. It has relatively flat and completely exposed surfaces, with no hidden or moving parts. This makes its exceptionally easy to use and clean. The sensor contains a wireless transmitter, which is activated when wetness is sensed. It also includes a new sensor design that provides a much larger sensing element along which to sense wetness. This element is along the length of the approximately 22 mm long sensing area separating the two magnetic assemblies on the surface of the sensor. The attached briefs must get suitably wet anywhere along this sensing area. This allows a very low electric current to flow between the two assemblies and activates the alarm.

The DryBuddyFLEX is designed to respond to urine (not water) coming quickly (in a "rush"), and will not be activated by perspiration which slowly soaks into the briefs. This eliminates most false alerts. Please note that urine has electrical properties like salt water, and not plain water, so salt water must be used for any testing. The briefs to which the sensor is attached must get wet quickly anywhere along the length of the sensing area of the sensor in order for the sensor to be triggered. Slow wetting or inadequate wetness along the sensing area may result in the sensor not being triggered. The sensor should be placed where urine is likely to fall near the center of the sensor. The briefs and attached sensor should be "snug" or fairly firm-fitting so that the urine is likely to fall on the sensor and not away from it. Customers can use a second pair of briefs, worn over the briefs with sensor attached, to keep the sensor snug. Diaper-like devices can also be worn over the briefs with sensor to help keep the sensor snug and also absorb excess urine.

The DryBuddyFLEX 3 Sensor can also be used with DryBuddy's patented wetness sensing briefs (optional) where the Sensor is attached to "snaps" at the waist. These briefs have "invisible" sewn-in wires which allow sensing wetness over a very large area covering much of the front, back and lower portions of the briefs. The briefs are very comfortable, and are often used when extra comfort is desired. They are particularly convenient for boys or men, where sleeping on the side can result in urine falling to the side of the magnetic sensor. The large sensing area of these briefs is much more likely to catch and sense the immediate wetness.

The Sensor contains a sealed battery which is designed to be good for over 2,000 triggers (switched ON). To preserve battery life and prevent needless triggering while the sensor is being cleaned, the sensor is switched OFF and placed in a Sleep state for a period of two (2) minutes after a trigger. It is then automatically re-set into a Ready state and can be triggered again.

The Sensor must be synchronized with the Remote and the Transceiver(s) that are used in the DryBuddyFLEX system. Without synchronization, the system will not work. Testing the sensor after synchronization is best done by dipping the Sensor's two magnets in a cup of salt water.

Transceiver

The patented Transceiver receives wireless signals from the Sensor and Remote, and re-transmits this signal to additional (optional) Transceivers that may be used. It has a built-in audio alarm, and an optional Bed Shaker alarm can be attached to and be powered by the Transceiver.

The Transceiver is the “brain” of the DryBuddyFLEX 3 system. It allows the user to set it to perform many functions that will make the system’s use better and more convenient for the user and the caregiver. These include:

- ✓ Turning the system ON or OFF.
- ✓ Switching the system into a READY state so that it will receive the trigger signal from the Sensor and turn on the alarm(s). This can be done manually or by using the Remote.
- ✓ Switching OFF the alarm, either manually or by using the Remote.
- ✓ Selecting one of the audio alarm musical sounds or silence (no audio alarm).
- ✓ Setting the volume of the audio alarm.

Up to five (5) Transceivers can be used together in a DryBuddyFLEX 3 system to provide additional locations for alarm and control. In a system using multiple Transceivers all Transceivers must be synchronized with the Sensor and Remote. If any Transceiver receives a signal from the Sensor or Remote, or is switched ON or OFF, or the alarm is switched OFF, all Transceivers receive these commands and behave accordingly.

Preventing User Misuse

The DryBuddyFLEX 3 system can be optionally set so that when the alarm is turned OFF, it can only be re-set to its Ready state by using the Remote. This is particularly useful with children or patients who may turn the Transceiver OFF so that the alarm will not sound and they will not be disturbed or woken up. This can result in parents or caregivers thinking that the alarm is malfunctioning. In such instances, the system can be set so that it can only be switched into its READY state by the Remote, which is kept with the caregiver. If the DryBuddyFLEX is switched OFF, the child or patient cannot turn it ON again without the knowledge of the caregiver.

The Transceiver(s) must be synchronized with the Sensor and the Remote that are used in the DryBuddyFLEX system. Without synchronization, the system will not work.

Remote

The DryBuddyFLEX 3 Remote is used to wirelessly switch the Transceiver

1. From its OFF state to its Ready state. The Sensor signal can now be received.
2. From its ON (or Alarm) state to its Ready state. The alarm is switched OFF.
3. From its Ready State to its OFF state. The system has been switched OFF.

The Remote must be synchronized with the Sensor and the Transceiver(s) that are used in the DryBuddyFLEX system. Without synchronization, the system will not work.

During synchronization, please also remember that if the OFF button of the Remote is pressed, the Manual Power (MP) of the Transceiver is enabled so that the Transceiver can be switched from its Sleep to Ready state by pressing the Power switch or using the Remote. Similarly, if the ON button of the Remote is pressed during synchronization, Remote Power (RP) is enabled and only the Remote can be used to switch the Transceiver from Sleep to Ready.

Using the Remote to Make the Child or Patient get out of Bed when the Alarm Sounds

A simple way to have the child get out of bed is to place the Transceiver out of reach of the child or patient, so that it can only be operated with the Remote. The Remote can then be placed with the parent or caregiver, or placed in a location such as the bathroom. The child must get up and go to the bathroom (or parent) to turn the alarm OFF. Once the sensor has been cleaned and placed on the child's fresh briefs, the Remote can switch the Transceiver back to its READY state so that it can respond to the Sensor's signal.

Alarms

Most customers will use the Transceiver's built-in **audio alarm**. Two very effective musical sounds are provided – a trumpet fanfare and a Berlin police siren. This alarm is much louder than any other measured bedwetting alarm, with a loudness of up to 100 dB at a distance of 8 inches or 20 cms. Five loudness settings are provided to adjust the volume to a suitable level. A silent sound level can be used when the optional Bed Shaker is being used to alert the user with extremely strong vibrations. The silent setting is also useful with incontinent, elderly and other patients where the patient is not to be disturbed by a wetting incident, but a caregiver can be alerted through a second Transceiver and can initiate cleaning or other procedures to take care of the patient.

A **Bed Shaker** is a very effective alarm which provides extremely strong vibrations to wake or alert a child or patient. It is typically placed below the user's pillow or between the bed's top mattress and foundation. It is attached to the Transceiver, which switches the Bed Shaker ON or OFF together with the audio alarm.

Please refer to the DryBuddyFLEX FAQ section on www.DryBuddy.com for additional information, advice and many answered questions:

www.DryBuddy.com → FAQ → DryBuddyFLEX