



**Malem MO7  
Wireless Alarm + Record  
Wetness Sensor  
and  
Toilet Trainer**

**Wireless 16 Channels 433MHz**

Please read the instructions carefully before use.  
For best results and trouble free operation, all instructions must be  
adhered to and followed.

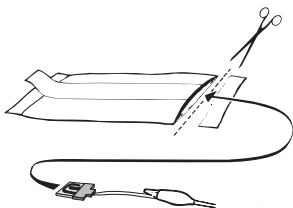
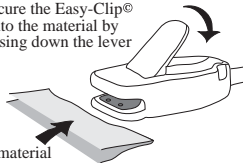
**Caution:**

The wetness Sensor is not intended to replace proper adult  
supervision.

## Operating Instructions: “Please READ”

1. Make sure the encode switch is set to the same position in both the Transmitter (Tx), and Receiver (Rx) “Matching pair”. Do NOT mix with others of different Code setting as the “pair” will not communicate with each other if NOT code matching.
2. Make sure fresh Alkaline batteries are in both Tx (2 X AAA) & Rx (4 X AA).
3. Remove isolating tags from battery compartments of both Tx (remove first) and Rx if new from Malem Medical. Rx will beep until signal is received from Tx. Allow up to 13 seconds. (Battery saving feature).
4. Red LED must flash on Tx and Green LED must flash on Rx, (once every 5 seconds). Make sure batteries are new and making good contact inside compartment if LEDs do not flash. Record user’s name or personal message or music if you wish or select type of alarm. See diagram.
5. Plug in **Easy-Clip© Sensor** (make sure lever is lifted open), Standard Sensor or Bed-Mat (both optional extra) to Tx. The **Easy-Clip© Sensor** can be attached to the outside of close fitting pants. The **Standard Sensors** can be placed inside a sanitary pad or nappy and for the Bed-Mat, between the sheets under the user so that the Tx is triggered as soon as it detects urination or wetness. (See page 4 for Bed-Mat instructions)

Secure the Easy-Clip© onto the material by pressing down the lever



6. Attach Tx to pyjama or night dress top. With Bed-Mat, place Tx beside the bed or attach to head board.



7. Once Tx detects wetness, it will send a signal to the Rx. Please allow up to 13 seconds for the Rx to alarm. The nature of the alarm depends on your selection. (Alarm, Music or recorded name/message). The Tx Red LED and the Rx Green LED will flash once every second.
8. To stop the alarm sound, either remove the Tx sensor from wetness, or press the Reset button on the Rx. If you do not remove the Tx sensor from wetness, the Rx will alarm again in 3 minutes.
9. Record the event time if you wish.
10. Setup the Tx sensor again as in 5 above.
11. To test the Tx/Rx, close the Easy-Clip leaver or place a moist cloth across the Sensor or Bed-Mat tracks. The Rx should always "Alarm" (allow up to 13 seconds for the Rx to alarm, Battery saving feature).
12. The transmitter range is about 25 meters in open field.
13. The average battery life in the Tx is about 30 days and in the Rx about 7 days (depending on the frequency and nature of alarms).
14. Remove batteries if Tx/Rx not in use.

# Malem Wireless Alarm Enuresis Alarm Bed-Mat Sensor

## Instructions:

1. Place the Bed-Mat over the mattress in the area which is normally wetted and gently tie down.
2. Cover the bed-mat with a Clean Dry Cotton sheet and/or Bath Towel and make the bed up as usual.
3. Attach the Bed-Mat wire to the Tx Transmitter and place the alarm beside the bed.
4. Please tuck in the Bed-Mat wire so that it is not in the way for getting in and out of bed.
5. The Receiver sound can be stopped ONLY when the Bed-Mat wire is unlocked from the Tx or the Rx reset button is pressed. Rx will alarm again in 3 minutes if Tx is detecting wettness.
6. The Bed-Mat must be wiped clean with detergent and dried then replaced in a freshly made bed, as before, for reuse.
7. Adjust the loudness of the sound with the volume control.

## Hints

The rest button will stop the Rx from sounding only for 3 minutes if the Bed-Mat is not disconnected from the Tx.

The Bed-Mat positively locks to the Tx to prevent accidental disconnection. However, it must be unlocked before attempting to reset the alarm on the Rx.

Please use a thicker cotton sheet or place a bath towel above the Bed-Mat if sweating is triggering the alarm prematurely. Avoid plastic and Man-Made fibers as they may cause static discharge and false alarm.

Treat the Bed-Mat with care. Avoid folding it or jumping over it.

Please replace the Bed-Mat with a new one if it has deteriorated and use a new one with each child.

Please note that sleeping directly over an uncovered Bed-Mat or touching it by hand may trigger the alarm.

# **Malem Wireless Alarm + Record Wetness Sensor and Toilet Trainer Wireless 16 Channels 433MHz**

**Please read the instructions carefully before use. For best results and trouble free operation, all instructions must be adhered to and followed.**

## **Caution**

The wetness Sensor is not intended to replace proper adult supervision.

## **Theory**

The Wetness Sensor is ideal for use in Care or Nursing Homes as well as with children with learning difficulties. It can be used day or night in two ways:

- 1: Simply to indicate urination so that the child/patient is changed. This releases the nursing staff from regular and frequent manual checking and can avoid the complications associated with child/patient remaining wet until discovered.
- 2: To develop a toileting regime; by tabulating the child/patient urination times, a bladder activity pattern can be observed and the need for a bed-pan or toilet anticipated. This can result in significant reduction in the Management and Disposable Nappy cost as well as an improvement in child/patient morale.

***If to be used as an enuresis alarm, then the Rx unit must be in the same room as the child with Tx.***

## **Description and Function**

The wetness Sensor consists of a small Transmitter (Tx) and a portable Receiver (Rx). The Tx is powered by 2 X AAA alkaline batteries. The Rx is powered either by 4 X AA Alkaline batteries or via a 6 Volt power supply (not supplied). The Tx can be attached to the supplied Easy-Clip Sensor or to Standard sensor or to a Bed-Mat (optional extra). They can be placed inside a sanitary pad or nappy or between the sheets under the user so that the Tx is triggered as soon as it detects urination or wetness. Once triggered, a signal is sent to the Rx which will emit a choice of alarm sounds, music or a recorded message, user's name (useful for identifying the wet user by name) or music of choice indicating urination or wetness. A silent vibrating option is available. Up to 16 Tx/Rx units can be used in the same location and more than one Rx for each Tx.

The transmit range of the Tx to Rx is approximately 25 meters in open field and fresh batteries.

The average battery life in the Tx is about 30 days and in the Rx about 7 days (depending on the frequency and nature of alarms).

## **Transmitter (Tx)**

### **Power**

Place two AAA Alkaline batteries in the battery compartment and observe correct polarity. Average battery life is about 30 days.

### **Red LED Indicator**

The Red LED should start to flash once every 5 seconds when sensor is dry and once every one second when sensor is wet. Make sure batteries are new and making good contact within battery compartment if Red LED does NOT flash.

### **Encode Switch**

Make sure that the encode switch setting inside the battery compartment is set in a matching way to the Receiver (Rx) encode switch setting.

### **Operation**

If the Tx is used with Easy-Clip Sensor, then it can be attached to the user pyjama top or night dress using the safety pin or the clip. If the Tx is being used with a Bed-Mat, then the Tx should be attached to the side of the bed and away from any wetness.

## **Receiver (Rx)**

### **Power**

Place four (4) AA Alkaline batteries in the battery compartment and observe correct polarity.

**Hint:** Place batteries in Tx before Rx. Average battery Life is about 7 days. External mains adaptor 6V DC +ve centre pin (not supplied) can be used to power the Rx.

### **Encode Switch**

Make sure the encode switch is set to match the setting in the Tx encode switch.

### **Red LED Indicator**

The Red LED will be ON and beep sound is activated until the Rx receives normal signals from the Tx.

### **Green LED (5 mm)**

This LED is at the top part of the front case. It should start to flash once every 5 seconds indicating normal operation.

## **Function and Operations**

### **5 mm Green LED**

Flash once every 5 seconds indicates **normal** operations.

Flash once every 1 second indicates **Moisture** is detected by the Tx.

LED OFF indicates **no power** (make sure batteries are fresh and making good contact within battery compartment) or Rx is **out of range** from the Tx.

### **3 mm Red LED**

This LED will be **ON** as soon as batteries are inserted or power connected. It will be **OFF** once signal is received from the Tx (this can be up to 13 seconds long).

**Flash** when signal received from the Tx is getting weak. Distance between Tx & Rx is reaching normal operating limits.

**ON** when Rx is outside transmitting range. A **beep...beep** sound will be activated in this situation.

### **3 mm Yellow LED**

This LED will **Flash** if Tx battery is getting **Low** for normal operations. Replace Tx batteries.

### **3 mm Green LED**

This LED will be **ON** when Rx battery is too **Low** for normal operations. Replace Rx batteries.

### **Switch selection & Function**

Alarm type selection switches and record button are under cover next to battery compartment.

Slide switch: Sound + LED + Motor or LED + Motor only (NO Sound). The Motor indicates the ability to plug in the optional Vibrating unit for silent alarm indication.

Slide Switch: Message or Sounds or Melody. Choice of: recorded message or music or user's name, inbuilt alarm sounds or inbuilt music.

Slide Switch: 8 Sounds or Single sound 1 or Single Sound 2.

### **Recording**

If Message is selected, then a new message, music or the name of the user must be recorded by pressing the "Record" button and speaking into the Microphone next to the Record button. In Line recording is possible using the In Line socket. The "Record" button must be kept pressed during recording. Recording time is 10 seconds.

### **Test Button**

Press and hold to confirm your selection is correct for your needs.

### **Volume Control**

Located on side of case with minimum setting. Select desired volume level.

### **Reset Button**

Press to stop Rx alarm output. Alarm will reactivate after 3 minutes if Tx sensor is detecting and transmitting **Wet** signal.

### **The vibrating socket**

It is always ON when there is WET signal received. When the vibrating motor unit (optional Extra) is connected to the receiver, the motor will turn on regardless of the position of sound/light selection switch.

### **Encode Switch**

A choice of 16 channels to avoid interference and allow the use of more than one Tx/Rx unit in the same location. Please make sure that encode switch settings are identical in both Tx & Rx units (matching pair). Make sure other 'matching pair' has a different code setting if to be used in the same location.

### **Trouble Shooting**

No LED flashing when batteries are inserted: make sure batteries are new and fresh and making good contact within the battery compartment. Rx does not "Alarm" when Tx is wetted: make sure that the Tx and Rx batteries are not low and the Rx is not out of range from the Tx. Rx does not respond to Tx: make sure Code switch setting are matching in both Tx and Rx and that the Rx is not out of range from the Tx. Rx with beep..beep sound: Low batteries or Rx is out of range of Tx. Change batteries with new ones. Do not mix new and old batteries.



## **Optional Extra**

Standard Sensor. Bed-Mat.

## **Other Possible Applications**

To monitor the Tx carrier from getting out of range of the Rx.

## **Caution**

The wetness Sensor is not intended to replace proper adult supervision.

## **Safety**

Under no circumstances should the Transmitter (Tx) or Receiver (Rx) or the power supply (if used) be wetted, washed or immersed in water. Please do NOT dismantle either the Tx or the Rx. No operator serviceable parts inside.

The appliance should only be serviced by qualified service personnel. Always remove the batteries and/or disconnect the power supply if the Rx is not going to be used for long period of time.

## **Power Source**

The Tx and Rx are both battery powered. Batteries are already fitted free of charge. To save battery, the Rx can also be powered via a 6V DC (+ ve centre pin) mains adaptor (not supplied). Remove isolating tags from battery compartments if present.

## **Cleaning**

The Rx and Tx can be cleaned by wiping with a moist cloth.

## **Range**

The transmitter range is about **25 meters** in open field. Range may be reduced inside buildings.

## **Weight & Dimensions**

**Tx: 45 g - 5.6 X 5.1 X 1.7 cm    Rx: 266 g - 15 X 8.5 X 3.6 cm**

## **Guarantee**

The Wetness Sensor is guaranteed for one year. This excludes batteries, sensors and damage caused by accident, flood or misuse.

## **Transmitting Frequency**

433 MHz.

**Model No: MO7    CE Mark: Yes.**

**EMC Tested and approved: Yes.**

**EC- Certificate of Conformity according to the Electromagnetic Compability Directive (89/336/EEC).**

# Malem Wireless Alarm + Record

## MODEL MO7 Rx & Tx

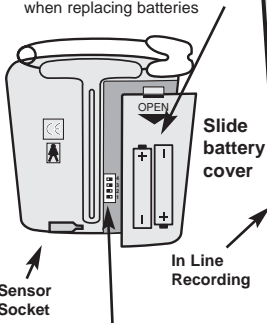
Red LED, flashes once/5 seconds (standby)  
Flashes once/second (wet)



**Tx**

Use 2 x AAA Alkaline batteries

Please observe correct polarity  
when replacing batteries



Sensor  
Socket

Slide  
battery  
cover

In Line  
Recording



Transmitter (Tx) code  
switch inside battery  
compartment.  
(Make sure the settings  
are matching in both  
Tx and Rx)

**Rx**

Standby - Flash once/5 secs  
Alarm - Flash once/sec

**MALEM**<sup>©</sup>

RX battery low

TX Battery low

Weak signal - flash  
out of range-ON+beep  
sound

Speaker

**Use Alkaline batteries ONLY**





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