WS900

Diaper Wetness Sensor for Home Care

User's Manual

FCC ID: OWGWS900TX & OWGWS900RX

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.

Any changes or modifications not expressly approved by Excel Engineering (HK) Co. Ltd. could void the user's authority to operate the equipment.

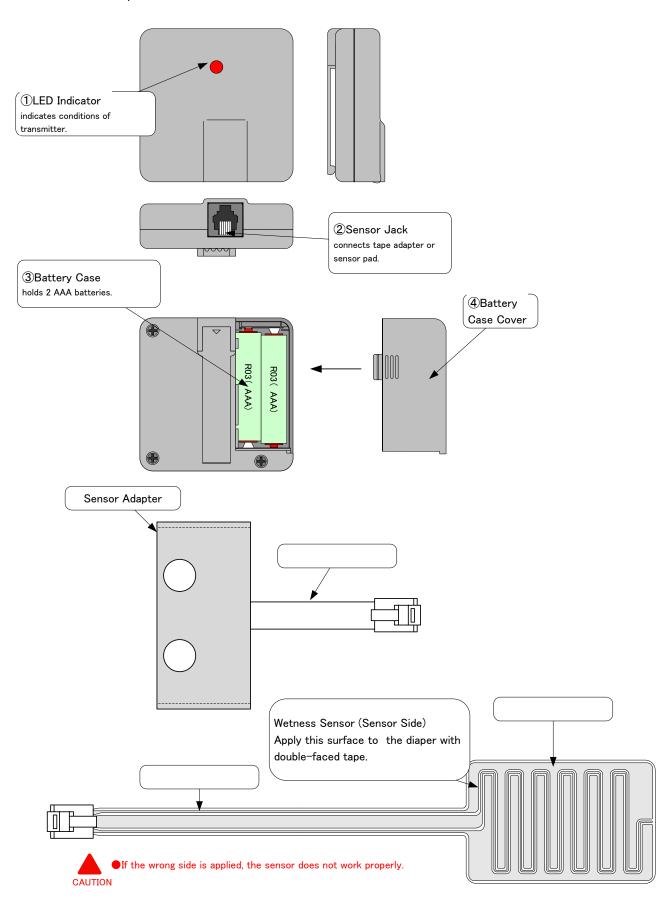
1. Specification

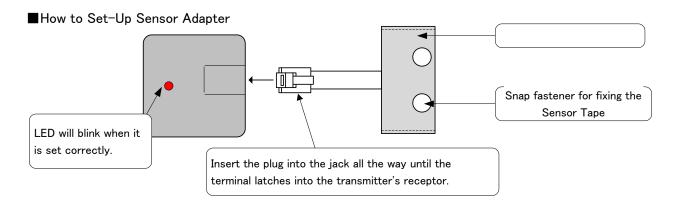
I tem	Spec.	Comment	
Frequency	907.762MHz	Tranci	mitter (
Current	Within FCC Requirment(Less Than 5000uV/m) Range In-Door Approx. 50m	FCC Automatic Levels 15.231(e)	iiiiccei (
Frequency Capacity Deviation	±10ppm		
Oscillation Type	Crystal Oscillator		
Modulation Type	FM Band		
Modulation Speed	500bps		
Wetness Sensing	Volume Sensor, Resistance Sensor		
Sensor Connection	6-Line Modular		
LED Indicator	Operation Indicator, Battery Indicator		
Operating Temp.	0~45°C		
Power Supply	3V(AAA x 2)		
Battery Life	Approx. 1 Month		
Antenna	Built-In		
Case	ABS		

2. Function

Max ID		256
ID Set-up	Туре	Fixed
ID Set up	Method	Written in ROM
Sensor Set-up	Туре	Auto
Sensor Set up	Method	Switch Sensor Pad & Tape Adapter
	Туре	LED
LED Indicator	Condition	Wet ModeBlink at 3 sec. cycle OperatingAutomatically illuminates after installing sensor and blink at 6 sec. cycle Low BatteryBlink at 1 sec. cycle

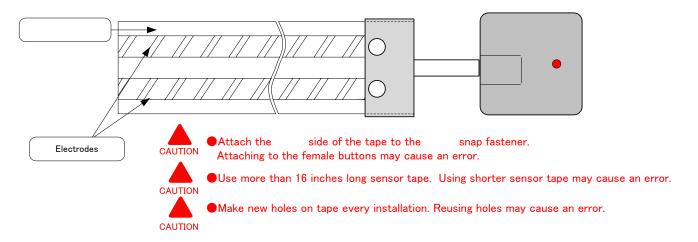
■Parts Description & Function





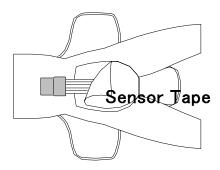
■How to Set-Up Sensor Tape

Install the sensor adapter to the sensor tape as below. Please make sure that the snap fasteners touch the electrodes; otherwise, it may not sense wetness.



■How to Apply to Diaper

Using Sensor Tape



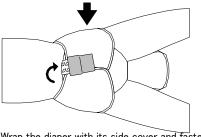
1. Apply the sensor tape between two layers of cloth diaper.



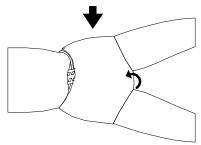
Face the blue side of the sensor tape to skin. Facing the wrong side may cause an error.



The sensor tape is only for one time use. Discard the used tape as combustible.

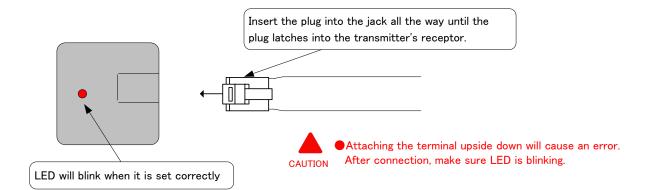


2. Wrap the diaper with its side cover and fasten with Velcro fastener. Fold back the transmitter on the cover.

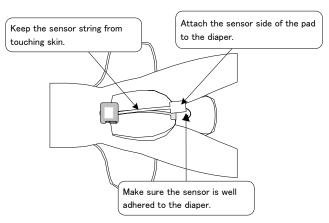


3. Wrap with the center cover.

■ How to Set-Up Sensor Pad



■ How to Apply to the Diaper



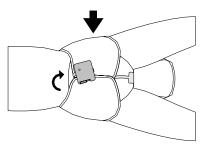
1. Attach the sensor pad to the diaper using double-faced tape.



Attach the grey side of the pad to the diaper. Attaching the wrong side may cause an error.



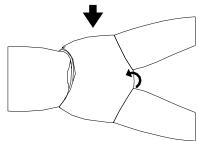
Change double-faced tape every day. Pre-used tape may cause an error.



2. Wrap the diaper with its side cover and fasten with Velcro fastener. Fold back the transmitter on the cover. You can also secure the transmitter with a clip.



If the string touches skin, the sensor may not work properly.



3. Wrap with the center cover.

■ Storage Caution

●When storing, detach the sensor pad from the transmitter, or remove batteries.





Leaving the rear side of the sensor pad on a metal surface may cause malfunction. When not in use, make sure that the rear side of the pad does not contact a metal surface.

1. Specification

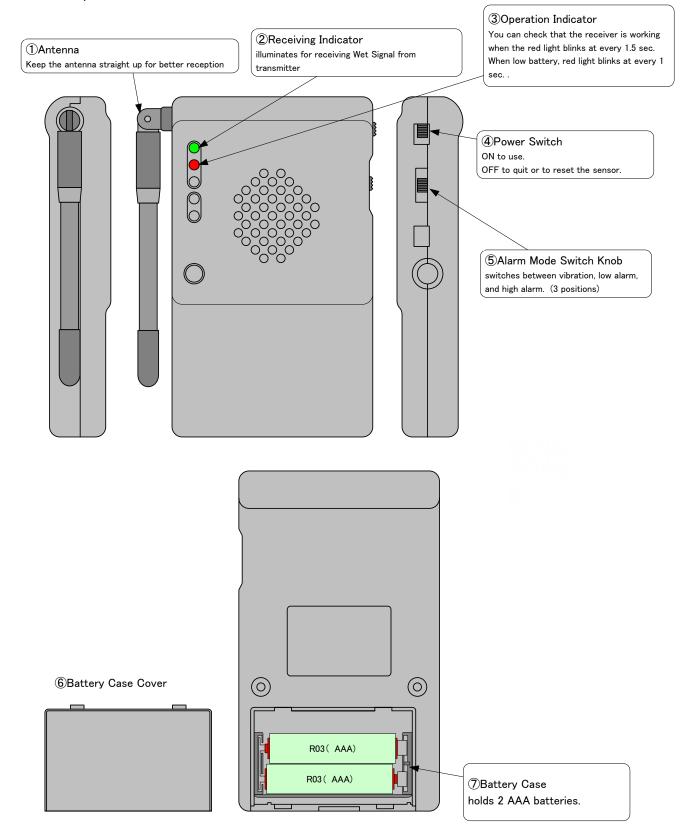
Item	Spec.	Comment
Receiving Frequency	907.762MHz	
Sensitivity	Indoor Approx. 50m 100dBu(12dBSINAD)	
Receiving Type	FM Band	
Unwanted Emission	Within FCC	7
ID Channel	Select 1 of 256	Written in ROM
LED Indicator	Operation Indicator, Receiving Indicator	
Alarm	Switch Hi-Low(Volume Hi-Low)	
Vibrator	Intermittent Vibration	
Operating Temp.	0~45°C	
Power Supply	3V(AAA × 2)	Alkaline AAA Battery x 2
Battery Life	Approx. 1 Month	
Antenna 1/2 λ (External)		Can swivel
Case	ABS L100×W59×H19.5	Modified the existing case

2. Function

Max D		256
ID Set-up	Туре	Fixed
ID Set-up	Method	Written in ROM
Alarm Set-up	Туре	Side-Mounted Switch
Vibrator Set-up	Method	Hi-Low
Alarm Mode	Туре	Side-Mounted Switch
Alarm Wode	Method	Vibration Alarm - Low Alarm - High Alarm
	Туре	LED
LED Indicator	Condition	Wet ModeLED (Green) illuminates OperatingLED (Red) blinks at every 1.5 sec. Low BatteryLED (Red) blinks at every 1 sec.

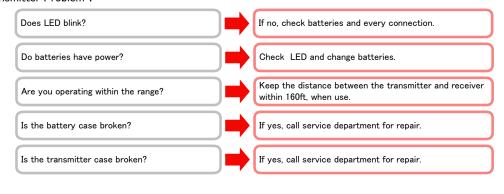
Receiver

■Parts Description & Function



■ Can Not Detect Wetness

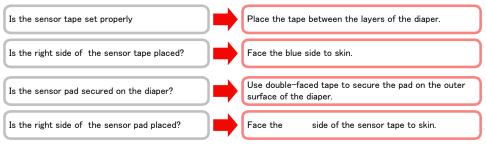
● Transmitter Problem?



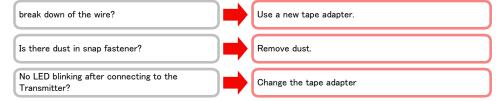
Receiver Problem ?



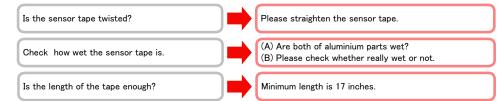
● Diaper Problem ?



● Tape Adapter Problem?



● Sensor Tape Problem?



Tro

