PROGUARD800™ SERIES
WD861 WATER LEAK DETECTOR

USER MANUAL •

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SAFETY WARNINGS

- To prevent short circuits, this product should only be used inside and only in normally dry spaces. Do not expose the transmitter to rain or moisture.
- Do not expose the components of your systems to extremely high temperatures or bright light sources.
- In case of improper usage or if you have altered and repaired the product yourself, all guarantees expire. Haibrain does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. Haibrain does not accept responsibility for additional damage other than covered by the legal product responsibility.

- This product is not a toy. Keep out of reach of children.
- The product should only be repaired or serviced by a qualified repairman.
- Keep batteries out of the reach of children. Dispose of batteries as chemical waste. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. Check the polarity (+/-) of the batteries when inserting them in the product. Wrong positioning can cause an explosion.
- Automatic switching devices provide comfort, but can also be dangerous. They can surprise people or can ignite clothing hanging over an electric heat source. Please be careful and take appropriate measures to avoid accidents.

INTRODUCTION

The WD861 is an indoor flood sensor and transmitter designed for use with **Haibrain's** ProGuard800 supervised wireless range of receivers. When you wish to know more about the complete system, its possibilities and its settings, then you can check out the installation manual or visit http://www.haibrain.com.

This unit is intended for installation adjacent to water tanks, piping, radiators and anywhere prone to damage caused by an undetected water leak. In the event of flooding or leakage, the WD861 notifies the control panel 30 seconds after detecting the presence of water.

INSTALLATION INSTRUCTIONS

1. To open the transmitter's housing, insert a small screwdriver at the bottom of the unit between the front and back cover and twist the screwdriver to release the cover.
2. Remove the divider separating the battery from the contacts on the battery holder. When you apply power and the Tamper switch is open, the WD861 enters Test mode during which a transmission is sent every few seconds. You can terminate Test mode by closing the Tamper switch. Test mode is automatically terminated after approximately five minutes.
    Note: Due to the occurrence of voltage delay in lithium batteries that have been in storage, the batteries may initially appear to be dead. In this case, leave the unit in Test mode for a few minutes until the battery voltage level is stabilized.
3. While the WD861 is in Test mode, set the receiver to Registration mode and make sure that the transmitter's LED indicator lights up at least twice.

After registration, momentarily close the Tamper switch to terminate Test mode. Write the number of the zone and the transmitter number (where applicable) on the sticker provided. Affix the sticker inside the front cover for future reference. Note: Alternatively, the WD861 can be registered to the receiver by manually entering the transmitter's serial number.

4. Choose a mounting location. The transmitter should be positioned in a vertical position high on the wall in order to optimize reception. The sensor should be placed in a position where water will accumulate rapidly in the event of a flood.

5. Test the transmitter to determine the suitability of your chosen mounting location. To do so, place the transmitter in the exact mounting position and press the Tamper switch making certain that the transmissions are successfully received. If necessary, relocate the transmitter to a better position and repeat the test.

6. To remove the printed circuit board (PCB), press the PCB release tab, carefully lift the board and slide it away from the back cover. Note: When handling the PCB, do not apply pressure on the antenna.

7. Knockout the wiring hole in the back cover – see Figure 2.

8. Mount the back cover of the transmitter to the wall using two screws. Use ISO 7050 (ST3.5 x 22) or similar countersunk screws so that the screw head will not touch the PCB – see Figure 1.

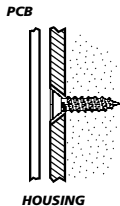9. Thread the sensor's cable

PCB

HOUSING

Figure 1: Mounting Screw Position

through the wiring hole.

10. Connect the sensor's cable to the terminal block as shown in Figure 2

11. Replace the PCB inside the back cover making sure that it clicks into place.

12. Before permanently mounting the sensor, place a wet rag over the terminals (located on the bottom of the sensor).

13. The WD861 transmits an alarm 30 seconds after detecting the presence of water. This 30-second delay verifies that the alarm is caused by a significant amount of water and is designed to prevent false alarms caused by humidity or condensation. Similarly, the WD861 sends a restore signal 30 seconds after the sensor's terminals are dry.

14. When the Tamper switch is open, the 30-second delay is canceled in order to speed up the test procedure. Make certain that the LED is lit during transmissions.

15. Note: The LED indicator does not function when the Tamper switch is closed.

16. Fix the sensor to the floor using the two screws and plugs provided. Alternatively, you can fix the sensor to the floor using the double-sided adhesive tape provided – see the following section.
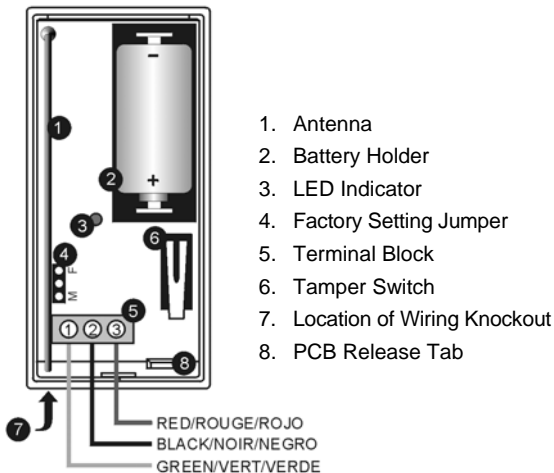
17. Close the front cover of the sensor.

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1. Antenna
2. Battery Holder
3. LED Indicator
4. Factory Setting Jumper
5. Terminal Block
6. Tamper Switch
7. Location of Wiring Knockout
8. PCB Release Tab

RED/ROUGE/ROJO
BLACK/NOIR/NEGRO
GREEN/VERT/VERDE

Figure 2: WD861 Transmitter (Cover Off)/

SENSOR INSTALLATION WITH DOUBLE-SIDED ADHESIVE TAPE

If using double-sided adhesive tape to install the sensor, perform the following procedure for best results:

1. Clean all surfaces using a low strength solvent such as isopropyl alcohol to ensure that the surfaces are clean, dry and grease-free.
2. Peel away the backing from the pieces of adhesive tape and attach them to the underside of the sensor. Note: Do not touch the adhesive with your fingers.
3. Peel away the backing from the other side of the adhesive tape.
4. Fix the sensor to the floor by firmly applying pressure for a few seconds.
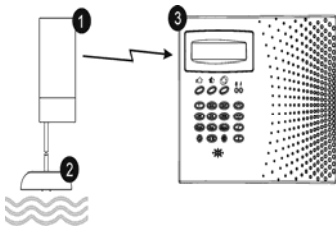
Figure 3: WD861 Typical

1. Transmitter
2. Sensor
3. Control Panel

TECHNICAL DATA

Antenna:	Built-in Internal Whip
Frequency:	868.35MHz FM
Power:	3.6V ½ AA Lithium Battery
Current Consumption:	25mA (transmission), 10μA (standby)
RFI Immunity:	40V/m
Cable Length:	2.4m
Operating Temperature:	0-60°C
Dimensions:	65 x 30 x 25mm (Transmitter)

Specifications may be modified without prior notice.

Note: The WD861 is supplied with the Factory Setting jumper in the "F" position. Do not change the configuration of this jumper.

Environmental Information for Customers in the European Union
European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

DECLARATION OF CONFORMITY

Hereby, Haibrain BV, declares that this WD861 is in compliance with the essential
requirements and other relevant provisions of the following Directives:
Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity
Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility

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868.35MHz is not intended for use in BG, GR, PL & SI.

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