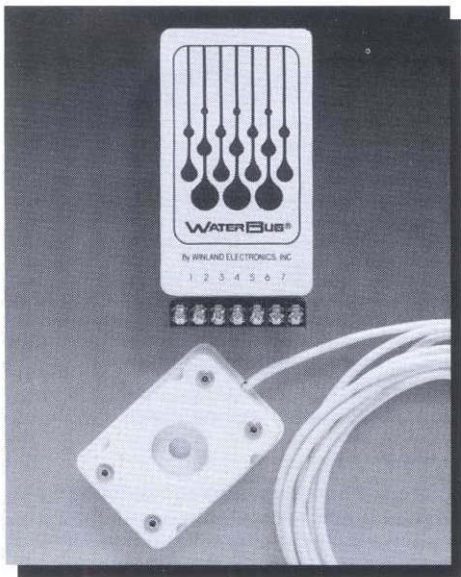


# **WATERBUG®**

## **INSTALLATION / OWNERS MANUAL**

### **MODEL WB-350**



PN#D-011-0002 REV C

## **INTRODUCTION**

Thank you for your purchase of the Winland WaterBug®. The WaterBug® is a completely electronic moisture detector which is designed to detect only nonflammable conductive liquids (distilled water cannot be detected). For proper operation it must be used in conjunction with a security system or other emergency notification device. The unit has been designed so that the control console mounts on the wall and the unit's remote sensors are placed in the locations where water seepage is most probable. Up to six remote sensors may be connected to one control console. A film of moisture forming a bridge between two metal contacts on any remote sensor is all that is needed for the unit to activate and signal an alarm condition. The output is non-latching, but will remain closed until the moisture bridge between the two contacts is broken. As sensitive as the unit is, it will not alarm due to high humidity or condensation. The WaterBug® is ideal for use around residential homes, office buildings, computer rooms, boats, etc. In addition, several WaterBug® consoles may be wired together in parallel, making moisture protection possible for an entire complex. **LOW BATTERY INDICATION:**The WB-350 will trip the open collector output and give an audible warning if battery voltage runs low.

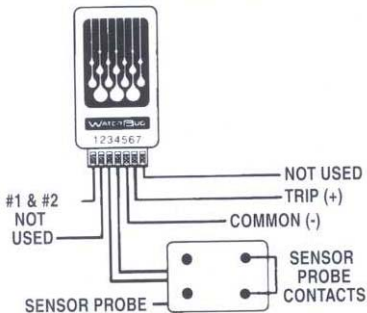
## **INSTALLATION**

Locate the area where the WaterBug® console is to be placed. Mark the position of the screw hole on the wall. Drive the mounting screw into the wall allowing approximately 3/16" between the screw head and the wall. Engage key slot on the back of the WaterBug® case with the screw head and press

down. Multiple sensors must be hooked up in parallel to terminals 3 & 4. The remote surface sensors may be mounted securely to the floor or a wall. **IMPORTANT: REFER TO THE WHITE INSTRUCTION SHEET FOR PROPER SENSOR MOUNTING PROCEDURE.** Mounting the WaterBug sensor on a vertical surface enables you to monitor an area for rising water levels. This feature is especially useful around basement sump pumps and other types of water storage and drainage systems. Note: WB-350 is equipped with an onboard buzzer for local annunciation and low battery warning.

## MONITORING FOR THE ABSENCE OF WATER

The WaterBug® (Model WB-350) should not be used to monitor for the absence of water as doing so will significantly reduce battery life. Note: If you wish to monitor for the absence of water use the WB-200 (hardwire version) instead.



## TERMINAL BLOCK CONNECTIONS

The WB-350 is powered by one 9-volt alkaline battery. To install the battery, loosen and remove the four corner screws. Insert the new battery and retighten the four corner screws. The WB-350 can be used in conjunction with virtually any type of wireless transmitter. The unit will activate the wireless alarm transmitter if any one of the remote sensing probes detects water. When connecting the unit to a wireless transmitter, simply wire the terminal #6 (+) and terminal #5 (common) to the input of the wireless transmitter. If your initial wiring activates the wireless transmitter when no moisture is present, reverse the leads on Terminals #6 and #5 on the unit.

## TEST PROCEDURE

Once installation has been completed, the WaterBug® may be tested by forming a moisture bridge between the two metallic contact points with a moistened finger or cloth. If everything is working properly, the WaterBug® will activate the warning device to which it is connected within approximately three seconds. Unit will reset automatically when the probe dries.

### Ordering Information:

Part No. 1047	WaterBug®, Control console (includes 1 standard surface sensor)
Part No. 1040	Additional standard sensors with 15' cable
Part No. 1041	Add'l under carpet sensors with 15' cable

## SPECIFICATIONS FOR WATERBUG® WB-350

CONSOLE SIZE:	5" X 2.44" X 1.25"
PROBE SIZE: (standard)	2" X 3" X 7/8"
(under carpet probe)	2" X 3" X .18"
POWER REQUIREMENTS:	9-VOLT ALKALINE BATTERY
CURRENT DRAW RESTING STATE:	<40 MICROAMPS
APPROXIMATE BATTERY LIFE:	In excess of 1 year (replace batteries sooner if alarm is tripped for long periods of time).
OPERATING TEMPERATURE RANGE	32° F to 140° F 0° C to 60° C
MAXIMUM NUMBER OF SENSORS & MAXIMUM SENSOR CABLE RUN	1-2 SENSORS 200' MAX 3-6 SENSORS 100' MAX
RECOMMENDED SENSOR CABLE	18 to 24 GA.
COLOR / MOUNTING	Off-white / KEY SLOT
OUTPUT TRANSISTOR SPECIFICATIONS:	

Type of configuration: Open collector

Maximum voltage to be connected to trip line: 30 VOLTS

Maximum collector current: 25 mA

Mfg. in the U.S.A. by:



**WINLAND**  
ELECTRONICS, INC.

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Outside MN Phone: 1-800-635-4269

Phone: (507) 625-7231 FAX: (507) 387-2488

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## ONE YEAR LIMITED WARRANTY

Winland Electronics, Inc. warrants that each product of its manufacture is free from defects in material and factory workmanship, when properly installed and operated under normal conditions according to the manufacturer's instruction.

Manufacturer's obligation under this warranty is limited to correcting, without charge, at its factory any part or parts thereof which shall be returned to the factory, by the original retail purchaser, transportation charges prepaid, within one year after purchase and which upon examination shall disclose to the manufacturer's satisfaction to have been originally defective. Correction of such defects by repair to, or supplying of replacements for defective parts shall constitute fulfillment of all obligations to purchaser. Repair service performed by the manufacturer after one year from date of purchase will be for a reasonable service charge.

This warranty shall not apply to any of the manufacturer's products which have been subject to misuse, negligence or accident or which shall have been repaired or altered outside of the manufacturer's factory. Warranty is void if housing or cover is removed.

**Manufacturer shall not be liable for loss, damage, or expense directly or indirectly from the use of its product or from any other cause.**

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