

WATERBUG®

INSTALLATION / OWNERS MANUAL

MODEL WB-200



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



WINLAND
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INTRODUCTION

Thank you for your purchase of the Winland WaterBug® model WB-200. The WaterBug® is completely electronic and is designed to detect only nonflammable conductive liquids (distilled water cannot be detected). The unit is not a self contained warning device. For proper operation it must be used in conjunction with a wireless transmitter, alarm system, etc. It is designed so that the control console mounts on the wall and the 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 the 2 metallic contacts on any remote sensor is all that is needed for the unit to signal an alarm condition. The output on the WB-200 is non-latching, but will remain closed until the moisture bridge is broken. As sensitive as the WaterBug® is, it will not alarm due to high humidity or condensation. The WaterBug is ideal for use in homes, offices, computer rooms, boats, etc. Several consoles may be wired together to monitor an entire complex.

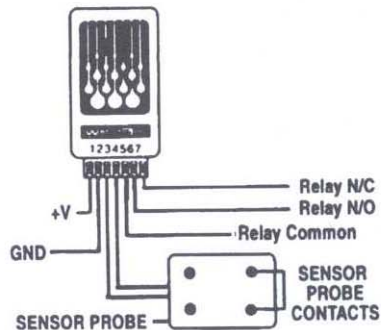
INSTALLATION

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. Mounting the sensor(s) on a vertical surface enables you to monitor an area for rising water levels. This is useful around basement sump pumps and other types of water storage and drainage systems.

MONITORING FOR THE ABSENCE OF WATER

The WaterBug® (Model WB-200) can be used to monitor for the absence of water. This is done by (a) mounting the probe at the desired minimum waterline and (b) using the set of contacts that are the opposite of what you would use if you were detecting the presence of water.



The relay connections shown are for when power is applied to the unit. The unit provides power-on supervision so that if power is lost, the relay will provide an alarm output

TERMINAL BLOCK CONNECTIONS

Relay contacts are accessible on the terminal block. The unit is in normal condition when power is applied and no moisture is being detected. The unit is in alarm condition when water is detected by any one of the remote sensing probes. Note: When connecting DC power to the WB-200 be sure to observe polarity and test to see if the unit is operating properly. This may be done by forming a moisture bridge between two of the metallic contacts located on the sensor probe (see diagram) with a moistened finger or cloth. If the unit is not operating properly, check the polarity of the power supply connections.

AC - Power input wires are interchangeable

DC - Positive to position #1 and negative to position #2

TEST PROCEDURE

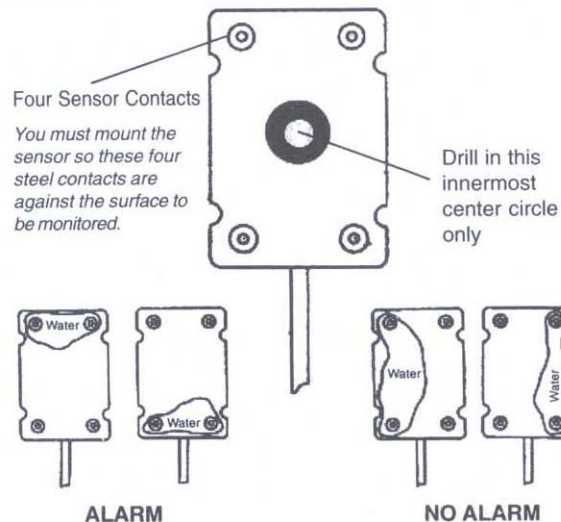
To test form a moisture bridge between the two metallic contact points (see diagram) with a moistened finger or cloth. If working properly, the WaterBug® will activate the warning device to which it is connected within approximately three seconds. Unit will reset automatically when the probe dries.

Ordering Information:

Part No. 1043	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

STANDARD SURFACE SENSOR PART NO. 1040

If the unit is to be bolted down as in a permanent installation, do not drill any hole outside of the innermost center recessed area. Damage to the internal wiring may result causing the unit to fail.



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.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE EXCLUDED, AS ARE ALL OTHER REPRESENTATIONS TO THE USER — PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES, INCLUDING LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF THE MANUFACTURER OR THE SELLER.

No person, agent or dealer is authorized to give any warranties on behalf of the manufacturer nor to assume for the manufacturer any other liability in connection with any of its products.

SPECIFICATIONS FOR WATERBUG® WB-200

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:	12 VDC, 24 VDC (8 - 28 VDC) @ 35 mA 12 VAC, 24 VAC (8 - 28 VAC) @ 100 mA RMS
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
OPERATING TEMPERATURE:	Control: 32° to 130° F (0° to 54° C) Probes: 32° to 130° F (0° to 54° C)
SENSITIVITY:	Will not alarm due to high humidity or condensation
RELAY RATING:	1 Amp at 24 VAC, resistive / 1 Amp at 30 VDC, resistive Form "C" contacts SPDT