Additional Probes

Multiple probes must be connected in parallel to the two "sensor" terminals. The WB-200 accepts up to 6 probes wired per console.

WEEE Product Recovery/Recycling for EU Customers


WB-200 Certification Info

Radio Frequency Interference Requirements: This device complies with Part 15 Class B 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.

CE Marking and European Union Compliance: Products intended for sale within the European Union are marked with the CE Mark, which indicates compliance to applicable Directives and European Norms (EN). Amendments to these Directives or ENs are included:

Applicable Directives

Statement of Compliance
Winland Electronics, Inc. hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC, 2002/95/EC, 2002/96/EC.

Symbols on the Product or Manual Labeling
For product disposal, ensure the following:
• Do not dispose of this product as unsorted municipal waste.
• Collect this product separately.
• Use collection and return systems available to you.

WEEE Waste Electrical and Electronic Equipment
RoHS Restriction of Hazardous Substances

Registered trademark (USA only)

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 instructions. Manufacturer’s obligation under this warranty is limited to correcting, without charge, at its factory any part of 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 of which shall have been repaired or altered outside of the manufacturer’s factory. 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, EXPRESSED 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.

Contents
This package contains:
• 1 WB-200
• 1 Surface Probe - Unsupervised (W-S-U)
• 1 Installation/Operating Instructions Guide

Specifications
Current Draw (resting) 12, 24 VDC @ 35mA
12, 24 VDC @ 100mA
12, 24 VDC @ < 35mA
12, 24 VDC @ < 100mA
Sensitivity Will not alarm due to high humidity or condensation.
Operating Temp 32˚ to 140˚F (0˚ to 60˚C)
Output 1 Form C Relay (N.O./N.C.)
1 Amp @ 30 VDC, resistive
1 Amp @ 24 VAC, resistive
Probe Options Includes 1 Standard Unsupervised Surface Probe (W-S-U)
Accepts up to 6 Unsupervised Surface Probes (W-S-U) wired in parallel or
Accepts up to 6 Unsupervised Under Carpet Probes (W-UC-U) wired in parallel.
Lead Length 1-2 probes; max recommended distance of 200’ (61 m)
3-6 probes; max recommended distance of 100’ (30.5 m)
Probe Cable Probes include 15” (4.6 m) cable. Extend using 22 AWG twisted pair.
Console Weight 2.4 oz (0.07 kg)
Console Dimensions 4.1 x 2.36 x 1.18” (10 x 6 x 3 cm) with flanges
Probe Dimensions Surface: 2 x 3 x 0.88” (5.1 x 7.6 x 2.2 cm)
Under Carpet: 2 x 3 x 0.18” (5.1 x 7.6 x 0.5 cm)
Mounting Flanges
Case Material ABS
Warranty 1 Year Limited
**INTRODUCTION**

Thank you for your purchase of the Winland WaterBug® model WB-200. The WB-200 is completely electronic and is designed to detect water only (distilled and deionized water cannot be detected). The WB-200 is not a self contained warning device. For proper operation, it must be used in conjunction with an alarm system, sounder, etc. It is designed so that the control console mounts on a wall or other flat vertical surface and the remote probes are placed in the locations where water leakage is most probable. Up to six remote probes may be connected to one control console. A film of moisture forming a bridge between the two metallic contacts on any remote probe 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 in alarm state until the moisture bridge is broken. As sensitive as the WB-200 is, it will not alarm due to high humidity or condensation. The WB-200 is ideal for use in homes, offices, computer rooms, warehouses, etc.

**INSTALLATION**

Locate the area where the WB-200 console is to be mounted. Using the WB-200 as a guide, mark the two locations on the mounting surface where the holes will be drilled in order to use the case’s mounting flanges. If mounting on drywall, use the two provided drywall anchors. Once the holes have been drilled, place the WB-200 against the surface and drive the screws into the holes or anchors.

Multiple probes must be hooked up in parallel to the two “sensor” terminals. The remote surface probes may be mounted securely to the floor or a wall. Mounting the probe(s) to a vertical surface like a wall enables you to monitor an area for rising water levels. This is useful in basement sump pumps and other types of water storage and drainage systems.

**TERMINAL BLOCK CONNECTIONS**

Relay contacts are accessible on the terminal block (See Figure 1). The WB-200 is in normal condition when power is applied and no moisture is being detected. It’s in alarm condition when water is detected by any one of the remote probes.

Note: When connecting DC power to the WB-200 be sure to observe polarity and test to see if the WB-200 is operating properly. This may be done by forming a water bridge between two of the metallic contacts located on the probe (See Figure 2) with a moistened finger or cloth. If the WB-200 is not operating properly, check the polarity of the power supply connections.

**STANDARD SURFACE PROBE UNSUPERVISED**

If a remote probe is to be bolted down in a permanent installation, drill only in the innermost center recessed area (See Figure 3). Drilling anywhere other than the innermost circle may damage the internal wiring causing the WB-200 to fail.

**MONITORING FOR THE ABSENCE OF WATER**

The WB-200 can be used to monitor for the absence of water (water level). This is done by:
1 - mounting the probe at the desired minimum waterline and ;
2 - using the opposite set of relay contacts that you would use if you were detecting the presence of water.

To insure proper operation, test weekly.

Concrete can be semi-conductive. If experiencing false alarms, insulate all probes mounted on concrete.

**TEST PROCEDURES**

To test the WB-200 operational status, form a water bridge between the two metallic contact points (See Figure 2) with a moistened finger or cloth. If working properly, the WB-200 will activate the warning device to which it is connected within approximately three seconds. The WB-200 will reset automatically when the probe dries and there is no longer a water bridge between the two metallic contact points.
**INTRODUCTION**

Thank you for your purchase of the Winland WaterBug® model WB-200. The WB-200 is completely electronic and is designed to detect water only (distilled and deionized water cannot be detected). The WB-200 is not a self contained warning device. For proper operation, it must be used in conjunction with an alarm system, sounder, etc. It is designed so that the control console mounts on a wall or other flat vertical surface and the remote probes are placed in the locations where water leakage is most probable. Up to six remote probes may be connected to one control console. A film of moisture forming a bridge between the two metallic contacts on any remote probe 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 in alarm state until the moisture bridge is broken. As sensitive as the WB-200 is, it will not alarm due to high humidity or condensation. The WB-200 is ideal for use in homes, offices, computer rooms, warehouses, etc.

**INSTALLATION**

Locate the area where the WB-200 console is to be mounted. Using the WB-200 as a guide, mark the two locations on the mounting surface where the holes will be drilled in order to use the case’s mounting flanges. If mounting on drywall, use the two provided drywall anchors. Once the holes have been drilled, place the WB-200 against the surface and drive the screws into the holes or anchors.

Multiple probes must be hooked up in parallel to the two “sensor” terminals. The remote surface probes may be mounted securely to the floor or a wall. Mounting the probe(s) to a vertical surface like a wall enables you to monitor an area for rising water levels. This is useful in basement sump pumps and other types of water storage and drainage systems.

**TERMINAL BLOCK CONNECTIONS**

Relay contacts are accessible on the terminal block (See Figure 1). The WB-200 is in normal condition when power is applied and no moisture is being detected. It’s in alarm condition when water is detected by any one of the remote probes.

**Note:** When connecting DC power to the WB-200 be sure to observe polarity and test to see if the WB-200 is operating properly. This may be done by forming a water bridge between two of the metallic contacts located on the probe (See Figure 2) with a moistened finger or cloth. If the WB-200 is not operating properly, check the polarity of the power supply connections.

- **AC** – Power input wires are interchangeable.
- **DC** – Positive to V+ and negative to Ground

**TEST PROCEDURES**

To test the WB-200 operational status, form a water bridge between the two metallic contact points (See Figure 2) with a moistened finger or cloth. If working properly, the WB-200 will activate the warning device to which it is connected within approximately three seconds. The WB-200 will reset automatically when the probe dries and there is no longer a water bridge between the two metallic contact points.

**STANDARD SURFACE PROBE UNSUPERVISED**

If a remote probe is to be bolted down in a permanent installation, drill only in the innermost center recessed area (See Figure 3). Drilling anywhere other than the innermost circle may damage the internal wiring causing the WB-200 to fail.

**MONITORING FOR THE ABSENCE OF WATER**

The WB-200 can be used to monitor for the absence of water (water level). This is done by:

1. Mounting the probe at the desired minimum waterline and;
2. Using the opposite set of relay contacts that you would use if you were detecting the presence of water.

To insure proper operation, test weekly.

Concrete can be semi-conductive. If experiencing false alarms, insulate all probes mounted on concrete.
### ADDITIONAL PROBES

Multiple probes must be connected in parallel to the two "sensor" terminals. The WB-200 accepts up to 6 probes wired per console.

### WB-200 Certification Info

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- Collect this product separately.
- Use collection and return systems available to you.

| WEEE Waste Electrical and Electronic Equipment RoHS Restriction of Hazardous Substances |

Registered trademark (USA only)

### 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 instructions. Manufacturer's obligation under this warranty is limited to correcting, without charge, at its factory any part of 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 of which shall have been repaired or altered outside of the manufacturer's factory. 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, EXPRESSED 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.

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This package contains:
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- 1 Installation/Operating Instructions Guide

### SPECIFICATIONS

- **Current Draw (resting):**
  - 12, 24 VDC @ 35mA
  - 12, 24 VDC @ 100mA
- **Current Draw (alarm):**
  - 12, 24 VDC @ < 35mA
  - 12, 24 VDC @ < 100mA
- **Sensitivity:**
  - Will not alarm due to high humidity or condensation.
- **Operating Temp:**
  - 32° to 140° F (0° to 60° C)
- **Output:**
  - 1 Form C Relay (N.O./N.C.)
  - 1 Amp @ 30 VDC, resistive
  - 1 Amp @ 24 VAC, resistive
- **Probe Options:**
  - Includes 1 Standard Unsupervised Surface Probe (W-S-U)
  - Accepts up to 6 Unsupervised Surface Probes (W-S-U) wired in parallel or
  - Accepts up to 6 Unsupervised Under Carpet Probes (W-UC-U) wired in parallel.
- **Lead Length:**
  - 1-2 probes; max recommended distance of 200’ (61 m)
  - 3-6 probes; max recommended distance of 100’ (30.5 m)
- **Probe Cable:**
  - Probes include 15” (4.6 m) cable. Extend using 22 AWG twisted pair.
- **Console Weight:**
  - 2.4 oz (0.07 kg)
- **Console Dimensions:**
  - 4.1 x 2.36 x 1.18” (10 x 6 x 3 cm) with flanges
- **Probe Dimensions:**
  - Surface: 2 x 3 x 0.88” (5.1 x 7.6 x 2.2 cm)
  - Under Carpet: 2 x 3 x 0.18” (5.1 x 7.6 x 0.5 cm)
- **Mounting:**
  - Flanges
- **Case Material:**
  - ABS
- **Warranty:**
  - 1 Year Limited