

## TANK ALERT<sup>®</sup> ABW (Wireless) Alarm Installation Instructions

The Tank Alert<sup>®</sup> ABW alarm system features a battery operated wireless transmitter that is placed in a tank (up to 150 feet away from the indoor alarm). When the high water alarm float switch activates, the transmitter sends a signal and sounds the indoor alarm warning of a potentially threatening liquid level condition. The horn can be silenced, but the alarm light remains on until the condition is remedied. Once the condition is cleared, the alarm will automatically reset.

The Tank Alert<sup>®</sup> ABW alarm system monitors liquid levels in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural, effluent filters, and other water applications.

### TANK ALERT<sup>®</sup> ABW ALARM FEATURES



Shown with optional mounting bracket.

- **120 VAC Voltage - Primary:** 120 VAC, 60 Hz, 2.4 watts maximum (alarm condition); Operating Voltage: 9 VDC.
- NEMA 1 enclosure rated for indoor use.
- Automatic alarm reset.
- Red "alarm" light and green "power on" light, alarm "test" switch, and horn "silence" switch.
- 6 foot (1.8 meter) power cord.
- Alarm horn sounds at 87 decibels at 10 feet (3 meters).
- If primary power fails, the alarm system continues to work due to battery backup feature. Battery Backup Power: 9 VDC (Battery not included.)
- Package includes standard internally weighted Sensor Float<sup>®</sup> control switch with 10 feet (3.04 meters) of cable with transmitter.
- Switching mechanism operates on low voltage and is isolated from the power line to reduce the possibility of shock.
- Low battery chirp.
- Loss of signal alarm. After 3 hours and 15 minutes without a signal, an alarm sounds and the red light blinks.
- External terminal block for an optional local alarm float.

### TANK ALERT<sup>®</sup> ABW TRANSMITTER FEATURES

- Wireless transmitter with up to 150 foot range
- Long life 3.6V lithium battery (recommended replacement 2 years)
- Meets all FCC requirements
- Transmitter transmits once per hour or when the float position is changed

### OPTIONS

- Mounting bracket
  - UL Listed component model available
- Alternate float switch models:
- Sensor Float<sup>®</sup> control switch (N.C.)
  - SJE MilliAmpMaster<sup>™</sup> control switch (N.O.)
  - SJE MilliAmpMaster<sup>™</sup> control switch (N.C.)

### PREVENTATIVE MAINTENANCE

- Periodically inspect the product. Check that the cable has not become worn or that the housing has not been damaged so as to impair the performance of the product. Replace the product immediately if any damage is found or suspected.
- Periodically check to see that the float is free to move and operate the switch.
- Replace batteries as specified in instructions.
- Use only SJE-Rhombus<sup>®</sup> replacement parts.

### SJE-RHOMBUS<sup>®</sup> THREE-YEAR LIMITED WARRANTY

SJE-RHOMBUS<sup>®</sup> warrants to the original consumer that this product shall be free of manufacturing defects for three years after the date of consumer purchase. During that time period and subject to the conditions set forth below, SJE-RHOMBUS<sup>®</sup> will repair or replace, for the original consumer, any component which proves to be defective due to defective materials or workmanship of SJE-RHOMBUS<sup>®</sup>.

**THIS WARRANTY DOES NOT APPLY:** (A) to damage due to lightning or conditions beyond the control of SJE-RHOMBUS<sup>®</sup>; (B) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided; (C) to failures resulting from abuse, misuse, accident, or negligence; (D) to units which are not installed in accordance with applicable local codes, ordinances, or accepted trade practices, and (E) to units repaired and/or modified without prior authorization from SJE-RHOMBUS<sup>®</sup>.

Some states do not allow limitations on how long an implied warranty

lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**TO OBTAIN WARRANTY SERVICE:** The consumer shall assume all responsibility and expense for removal, reinstallation, and freight. Any item to be repaired or replaced under this warranty must be returned to SJE-RHOMBUS<sup>®</sup>, or such place as designated by SJE-RHOMBUS<sup>®</sup>.

**ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. SJE-RHOMBUS<sup>®</sup> SHALL NOT, IN ANY MANNER, BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AS A RESULT OF A BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.**

**WARNING****ELECTRICAL SHOCK HAZARD**

Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.

**WARNING****EXPLOSION OR FIRE HAZARD**

Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.

Failure to follow these precautions could result in serious injury or death. Replace product immediately if switch cable becomes damaged or severed. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.

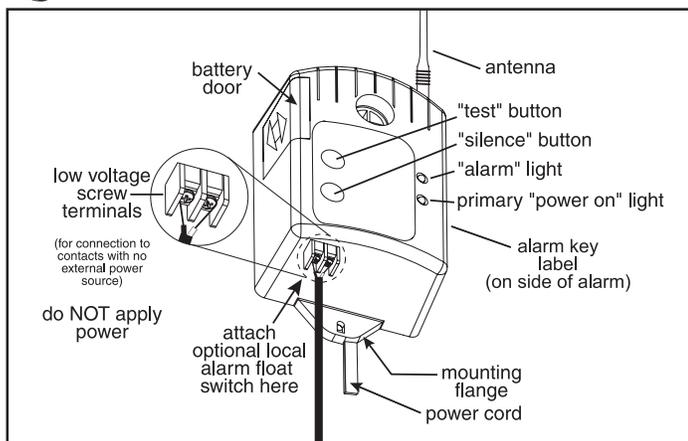
*For detailed specifications on this product, or for the complete line of SJE-Rhombus® panel, alarm, and switch products, visit our web site at [www.sjrhombus.com](http://www.sjrhombus.com).*

**INSTALLATION REQUIREMENTS**

- Please note the following requirements when determining a location for installation:
  - Do not mount the transmitter more than **2" below ground**. The further below ground the unit is installed, the shorter the range becomes.
  - Do not use a metal riser cover. It will severely limit the range of the unit.**
  - Note what is between the receiver and transmitter. An RV, pole shed, or any large metal object may cause transmission problems. Individual vehicles such as cars and SUV's will not be a concern.
  - The transmitter and receiver operate on a line-of-sight basis; where the signal goes straight to the receiver. Steep inclines may cause there to be no clear line of site between the receiver and the transmitter. (See Figure G on back page.)
  - Metal buildings and buildings with aluminum siding may cause the unit to have a shorter range. In some cases, it may be better to mount the receiver unit on a wall perpendicular to the transmitter.
  - AC power tools used continuously in excess of 3 hours may cause loss of transmission alarm.

**INSTALLING THE RECEIVER (ALARM)**

- Determine the location of the receiver (alarm) unit. Please note the following requirements when determining a location for mounting the receiver:
  - Do not install receiver (alarm) in a basement.
  - Do not install receiver (alarm) near a computer or radio. These items may limit receiver's ability to pick up a signal.
  - Mount receiver (alarm) as close to transmitter (float) as possible. (Do not exceed **150 feet**.)
  - Mount receiver and plug it into a 120 VAC wall outlet.
- Insert screw (supplied) at desired wall location. **Note:** Screw is to be located over wall stud or used with a wall anchor sized for a #8 x 1.25" self tapping screw.
- Hang alarm using keyhole on back of enclosure. Install second screw in mounting flange located on bottom of alarm.
- Make sure power to alarm is disconnected.
- Bring optional alarm float cable leads back to receiver unit and wire according to Figure A. **Note:** When used with a pump application, install optional 9 VDC battery. This allows the receiver to operate if the pump circuit fails.
- To install backup alarm battery (optional), open battery door and install 9 VDC alkaline battery (not included). **Do not use heavy duty/non-alkaline batteries. Battery must be installed for backup alarm to function. Note:** The green power on light does not illuminate when unit is on battery power.
- Plug the alarm in to apply primary power. Verify the green "power on" light illuminates.
- Install 3.6 VDC lithium battery in transmitter. The negative terminal on the battery connects to the spring side of the battery holder.
- Check operation by manually tipping float up. After a 10 second delay, the horn will sound and the "alarm" light will come on.
- Press "silence" button to silence the horn. The horn will silence while the red "alarm" light stays on.
- Tip float back down. After a 10 second delay the alarm light will turn off. Press "test" button. The "alarm" light and horn will activate.
- Reset the alarm by removing all 120V and 9 VDC power. Remove the 3.6 VDC battery from transmitter. Reapply power to the receiver unit. **Do not insert transmitter battery at this time.**
- Replace 9 VDC battery every 12 months and after each alarm condition** to ensure proper operation. If battery is low, the low battery chirp feature will cause the horn to chirp approximately once per minute. Replace battery if this occurs. **Note:** Non-alkaline batteries may cause a low battery chirp even when they are new.
- Using the provided cable clasp, secure cord to outlet as shown in Figure B. Use existing receptacle faceplate screw and supplied washer.
- Test unit once per week to insure proper operation.

**Figure A****Figure B**