

# Observer 500 - Alarm System

The Observer 500 Alarm system is designed to monitor liquid levels in sump basins, holding tanks, lift station tanks and many other non-potable water and wastewater applications.

This alarm comes standard with a Normally Open, 15 foot float switch to monitor for High Water levels. An optional Normally Closed float switch can be supplied for monitoring Low Water levels.

The Observer 500 is designed to sound an audible horn and illuminate a visible red beacon light to notify of an alarm situation. There is a silence switch to turn horn off while fixing the alarm situation which will automatically reset itself when the the situation is remedied. (The red alarm light will remain on until the alarm conditions are remedied). There is also a Test Button for convenient testing of the units alarm light and horn.

**OPTIONS:** Alternate float switches with variable cord lengths are available.

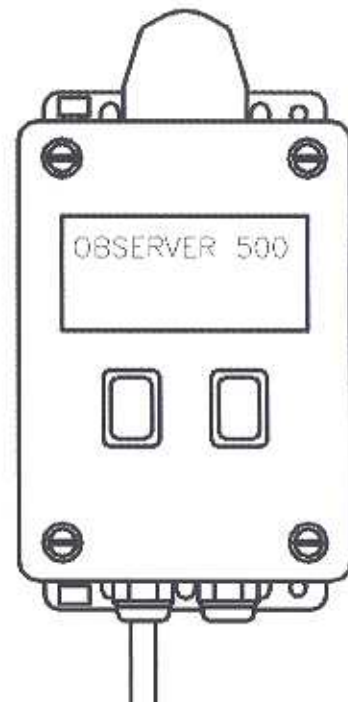
## **Outdoor High Water Alarm**

### **Benefits / Features**

- Nema 4X type thermoplastic enclosure designed for indoor / outdoor use
- 360 degree red "alarm" light, and alarm horn
- Alarm test button and horn silence button, with auto reset
- Mechanical float switch included (15' cord)
- 6' 120 volt AC power cord
- External cord grips for easy installation
- Mounting screws, anchors and spade connections included
- UL listed alarm system
- Two-year limited warranty

### **Specifications**

|                           |  |
|---------------------------|--|
| - Dimensions              | 5.5" x 3.75" x 3.75" (external mounting feet)                              |
| - Enclosure               | Nema 4X type thermoplastic   |
| - Horn                    | 85 db at 10' solid tone alert  |
| - Weight                  | 3.8 lbs.   |
| - Alarm Voltage           | Primary: 120 volt, 12 VAC secondary, 60 HZ (alarm condition 6.5 watts max) |
| - Power Cord              | 6 feet   |
| - Alarm light             | 360 degree visible   |
| - Float Switch            | 15' mechanical float   |
| - Float switch connection | Quick connect float connection. Do not apply power.                        |



## OBSERVER 500 ALARM SYSTEM INSTALLATION INSTRUCTIONS

Be sure to follow National Electric Code, ANSI/NFPA 70, when installing this unit to prevent moisture from entering or building up inside equipment.

### ALARM & FLOAT INSTALLATION:

1. Decide flat indoor or outdoor vertical mounting location.
2. Make sure power from the breaker to the site location is turned off.
3. Use the external mounting feet to securely mount the alarm unit to the surface.
4. Use the tie strap supplied in the box to secure the float switch (figure 1) at the desired warning level in the tank. Cut off excess material left from the tie strap and discard.
5. Bring float wire up to the alarm unit and strip the end of the float wire (figure 2) and connect the wires to the labeled terminal strip position.
8. Next, plug the 120 VAC power cord into outlet. Make sure the power supply is separate from the one used for the pump to ensure proper notification.
9. Attach the alarm box cover to the base using the four screws in the cover making sure the seal fits properly.
10. Turn the power on
11. Now manually test the alarm by tilting the float switch up until you hear the alarm notification and you see the alarm light turn on.
12. Periodically test unit by pushing the Test button on the cover to make sure unit is working properly.

Figure 1

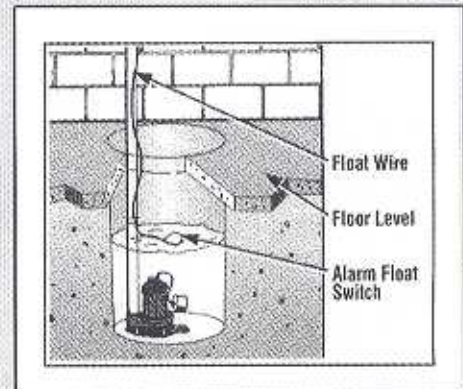
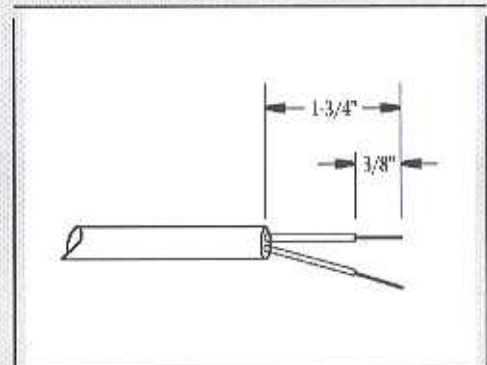


Figure 2



**WARNING: FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH. REFER TO THESE INSTRUCTIONS ANY TIME UNIT IS DISCONNECTED FOR ANY REASON.**