

Observer 100 - Pedestal Alarm System

The Observer 100 Pedestal Alarm System is designed to monitor liquid levels in effluent and sewage pump chambers. Two built-in receptacles are supplied for 120 or 240 volt pump units.

This complete alarm system is packaged in one box, and comes standard with a Normally Open, 20 foot float switch to monitor for High Water levels.

The Observer 100 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.

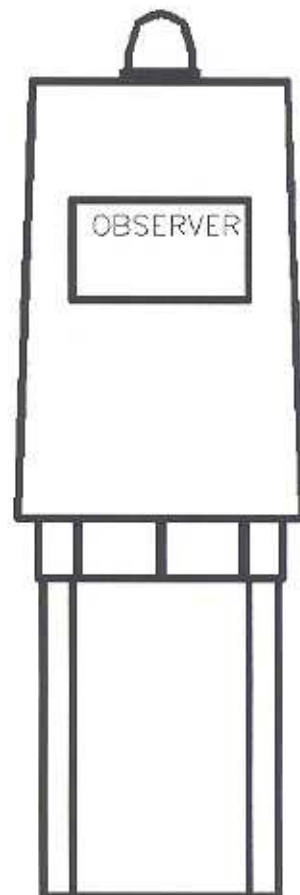
Plug-In Pedestal Alarm System

Benefits / Features

- Rugged Nema 3R water tight enclosure rated for outdoor use
- 120 / 240 VAC receptacles for plugging in the pump and switch
- Built-in high water alarm with horn and light (test feature included)
- 120volt with 9 volt battery back-up alarm, complete with automatic reset
- Spacious panel designed with 120v/240v pump power supply and 120v alarm power
- Mechanical alarm float switch with 20' cord
- Large access ports with gas/liquid tight seals for cord connections
- Positive snap cover for quick and convenient installation
- Silence button feature
- Auxiliary contacts standard
- Pending UL on complete pedestal assembly
- 2 year limited warranty

Specifications

- Enclosure dimensions	7.5 X 7.5 X 11
- Overall dimensions	7.5 X 7.5 X 46.5
- Enclosure	Nema 3R, UV protected PVC rated for outdoor use
- Alarm Horn	85 db at 10'
- Battery Back-up	9 VDC for alarm horn
- Light	10 watts
- Receptacle	120 V and 240 V
- full load amps	12
- Weight	14 lbs.
- Alarm Float	20' "Pilot" mechanical float
- Pump Voltage	120 / 240 volt, 60 Hz single phase
- Alarm Voltage	120 volt, 60 Hz single phase
- Standard auxiliary contacts	120 VAC, 5 amps max / 60 HZ



OBSERVER 100

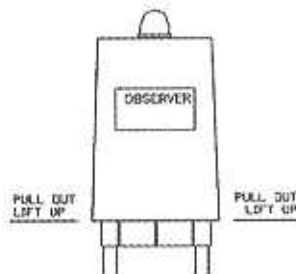
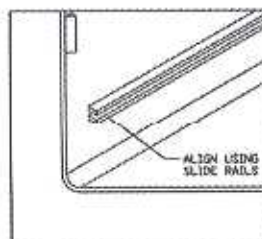
PEDESTAL ALARM SYSTEM INSTALLATION INSTRUCTIONS

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

Pedestal Installation

1. **Turn off** power to the pump chamber before starting.
2. Run **two separate power lines** to pump chamber (pump power 120 or 240 VAC & alarm power 120 VAC only). These power lines must be on separate circuit breakers in main panel.
3. Determine where the pedestal will be located. **Remove the front post access plate** (6 screws) and set the unit in the ground. **Bury** unit at desired level. (24" is recommended to secure unit)
(Optional) drill access hole in chamber for incoming pump, pump switch, and alarm float. If desired use a 2" X 3 1/2" threaded conduit fitting and threaded connectors to mount base through the side of riser. (Standard plumbing fixtures and connectors).
4. Remove the top cover for panel access by **pulling out on both sides of cover and lifting up**. Slide top cover off panel. **Cover fits snug**-secure pedestal before pulling. (see figure 1)
5. Bring both power lines up through pedestal base and through the **oval cord seal on back side** of control panel. (Use screw driver to poke holes through seal for wires to go through).
6. **Attach power line** to either the 120 or 240 volt receptacle wire leads using wire nuts. Attach **alarm line (120 VAC only)** to terminal strip on circuit board.
7. **Feed the pump power cord, pump float cord, and the alarm float cord** through the front of round opening supplied. Using the rubber wire seal, secure the cords by sliding them through the cord seal openings supplied. Place round cord seal in panel opening and tighten for cord strain relief. (Place pump cord labels below seal for best fit).
8. **Install piggyback plug** and pump plug into receptacle. *Choose 120v or 240v receptacle depending on pump voltage.*
8. Install 9 volt battery for alarm back-up. (battery not included)
9. Install alarm float wires to **quick connect tabs** supplied on the front of the control board.
10. **Turn on Power**. Push the test button to ensure unit is wired properly. Horn should sound and alarm light should illuminate. Install **top panel cover by using internal GUIDE RAIL, snap in place**.
11. **Test alarm** by lifting alarm float. Alarm should sound and light should illuminate.
12. **Test pump** by lifting pump float switch. Pump should run.
13. Back fill pedestal hole complete and secure unit by taming dirt around base at desired level.
14. **Measure distance** from ground to bottom of panel. **Note: add 2 inches to measurement for cover overhang.** Using utility knife, score front post access plate and snap off desired height. Secure front post access plate to base using supplied screws. (Figure 2)

(Figure 1)



⚠ 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.