CSI Controls®

CS1000 Indoor Tank Alarm Installation Instructions

This alarm system monitors liquid levels in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural, and other non-potable water applications.

The CS1000 indoor tank alarm system can serve as a high or low level alarm depending on the float switch model used. The alarm horn sounds when a potentially threatening liquid level condition occurs. The horn can be turned off, but the warning light remains on until the condition is remedied. A green "power on" light indicates power to the alarm panel.

TANK ALARM

- **120 VAC Model Voltage -** (circuits not supervised) Primary: 120 VAC, 50/60 Hz, 5 watts maximum (alarm condition) Secondary: 12 VAC
  230 VAC Model Voltage - (circuits not supervised) Primary: 230 VAC, 50/60 Hz, 5 watts maximum (alarm condition) Secondary: 12 VAC

- NEMA 1 enclosure rated for indoor use.

- Red "warning light", green "power on" light, alarm test switch, and horn silence switch.

- Alarm horn sounds at 86 decibels at 10 feet (3 meters).

- 6 foot (1.8 meter) power cord.

- Can be used with any switching mechanism rated to include 1 amp, 12 VAC load.

- Maximum line impedance for initiating device: 5 ohms.

- Alarm system (when installed on separate circuit) operatates even if the pump circuit fails.

- Complete package includes standard Sensor Float® control switch with 15 feet (4.57 meters) of cable (other lengths available) and mounting clamp.

- Switching mechanism operates on low voltage and is isolated from the power line to reduce the possibility of shock.

- Five-year limited warranty.

OPTIONS

When ordered with the alarm, this system is available with:

- alternate float switch models for high or low level warning.
- 120 VAC primary voltage or 230 VAC primary voltage.
- splice kit.

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 protection 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.
- Use only CSI Controls® replacement parts.

CSI CONTROLS® FIVE-YEAR LIMITED WARRANTY

Five-Year Limited Warranty.
For complete terms and conditions, please visit www.csicontrols.com.

For detailed specifications on this product, or for the complete line of CSI Controls® panel, alarm, and switch products, visit our website at www.csicontrols.com.

INSTALLING THE ALARM & FLOAT SWITCH

1. Determine indoor mounting location for alarm panel.
2. 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.
3. Make sure power to alarm panel is disconnected.
4. Hang alarm panel using keyhole on panel back. Install second screw between tabs located on bottom of panel.
5. Mount the cord by placing the cord into the clamp as shown in Figure A.
6. Locate the clamp at the desired activation level and secure the clamp to the discharge pipe as shown in Figure A.
   Note: Do not install cord under hose clamp.
7. Tighten the hose clamp using a screwdriver. Over tightening may result in damage to the plastic clamp. Make sure the float cable is not allowed to touch the excess hose clamp band during operation.
8. Bring cable leads back to alarm device and wire according to Figure B.
   Note: All hose clamp components are made of 18-8 stainless steel material. See your CSI Controls® supplier for replacements.
   Note: When used with a pump application, connect alarm to a circuit separate from the pump circuit. This allows the alarm to operate if the pump circuit fails.
9. Plug the panel in to apply power. The green "power on" light should come on.
10. Check installation by manually tipping the float. The horn and warning light should come on.
11. Move the horn silence switch to silence, the horn should silence while the red light stays on.
12. **You must manually reset alarm after activation.** Push horn button back to horn position and push test switch. The light and horn should activate.
13. Test unit once per week to ensure proper operation.
14. Using the provided cable clasp, secure cord to outlet as shown in Figure C. Use existing receptacle faceplate screw and supplied washer.
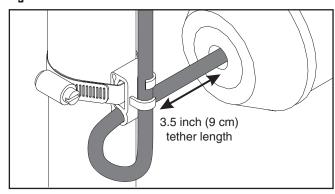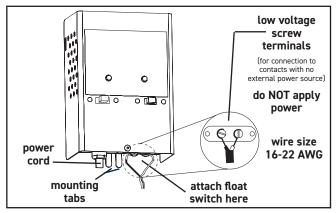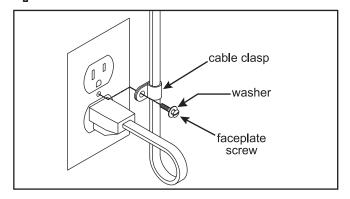
Figure A

3.5 inch (9 cm) tether length

Figure B

low voltage screw terminals
(for connection to contacts with no external power source)
do NOT apply power
wire size 16-22 AWG
power cord
mounting tabs
attach float switch here

Figure C

cable clasp
washer
faceplate screw

CSI Controls®

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