

Model HC7000

Electronic Utility Pump Switch

Patents Pending

HydroCheck
Controlling Water.
Preventing Damage.

Installation Instructions

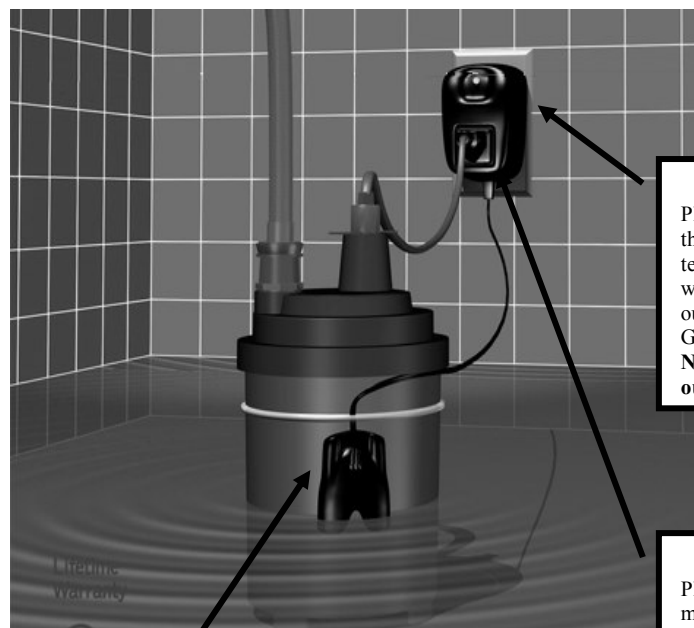
Operational Overview

The HC7000 Electronic Utility Pump Switch is specially designed to control the on and off operation of small utility pumps similar to the Flotec® Tempest® pump.

The HC7000 will turn on the pump when the water level reaches the sensor. It will keep the pump running until the water level drops to the point where the pump loses suction. It then turns the pump off and waits for the next cycle to begin. To help protect the pump from damage due to air lock conditions, the HC7000 will turn the pump off for 5 seconds if the water level doesn't drop below the level of the sensor after running for 20 seconds. An alarm will sound (3 beep pattern) if this occurs.

Important note: The HC7000 detects the loss of suction by monitoring the motor current and detecting the drop in current that occurs when suction is lost. In order to do this reliably, the sensor should be set at a level to insure that the pump runs for at least 5 seconds.

Step-by-Step Installation



Step 1

Plug the HC7000's control module into the 120VAC outlet. It will beep once to tell you it's ready to go and the LED will illuminate RED. RED indicates the output is off. GREEN, or flashing GREEN, indicates the output is on.

Note that this product is not rated for outdoor use.

Step 2

Plug the pump motor into control module. Note that the HC7000's output is rated for a maximum of 120 VAC, 3/4 HP/13.8 Amps (standard for most sump pumps).

Step 3

Attach the sensor to the motor with the supplied tie-wrap at the level where you want the pump to turn on. The sensor can be set at any level, but most pumps need a minimum water depth before they should be turned on. Consult your pump's owner's manual for this requirement.

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HC7000 Utility Pump Switch Troubleshooting Chart

The Model HC7000 Utility Pump Switch has a number of built in alarms that warn of problems with the pump or discharge plumbing. The available alarms are described in the table below.

Alarm/Indicator	Description	Possible Causes
2 Beeps	Can't turn pump on	Pump not plugged in
3 Beeps	High Level Alarm	Pump can't keep up with water coming in Discharge hose blocked Debris on sensor
Steady Slow Beep*	Motor current above normal	Restriction in discharge hose Pump motor beginning to fail
Steady Fast Beep*	Motor current too high	Severely restricted discharge hose Pump motor failure imminent
Steady Red LED	Pump off, no water detected	
Steady Green LED	Pump on, water detected by sensor	
Flashing Green LED	Pump on, water below sensor	

*The HC7000 needs to be reset after replacing the pump by performing the following steps:

1. Unplug the pump from the HC7000
2. Unplug the HC7000 from the 120 VAC outlet
3. Wait 5 seconds then plug the HC7000 back into the 120 VAC outlet
4. Wait for the HC7000 to finish its startup checks (about 5 seconds) then plug the pump back in.

Model HC7000 Utility Pump Switch Limited Lifetime Warranty

STAK Enterprises Inc. warrants the **Model HC7000 Utility Pump Switch** to be free from defects in materials and workmanship for its normal, useful life, from the date of purchase. STAK Enterprises Inc. makes no other express warranty for this device. No agent, representative, dealer, or employee of STAK Enterprises Inc. has the authority to increase or alter the obligations or limitations of the warranty. The company's obligation of this warranty shall be limited to the repair or replacement of any part of the HC7000 which is found to be defective in materials or workmanship under normal use and service during the duration of product use by original product owner commencing with the date of purchase. Owner must pay all shipping charges necessary to replace product covered by this warranty. This warranty shall not apply to acts of God, nor shall it apply to products which, in the sole judgment of STAK Enterprises, Inc. have been subject to negligence, abuse, accident, tampering, alteration, misapplication, or improper installation. Units in need of repair should be returned, shipping prepaid, to

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