HC6000v2 Sump Pump Switch

With Dual-Sensors and Built-In Alarms

HydroCheck
Engineered for reliability

Overview:

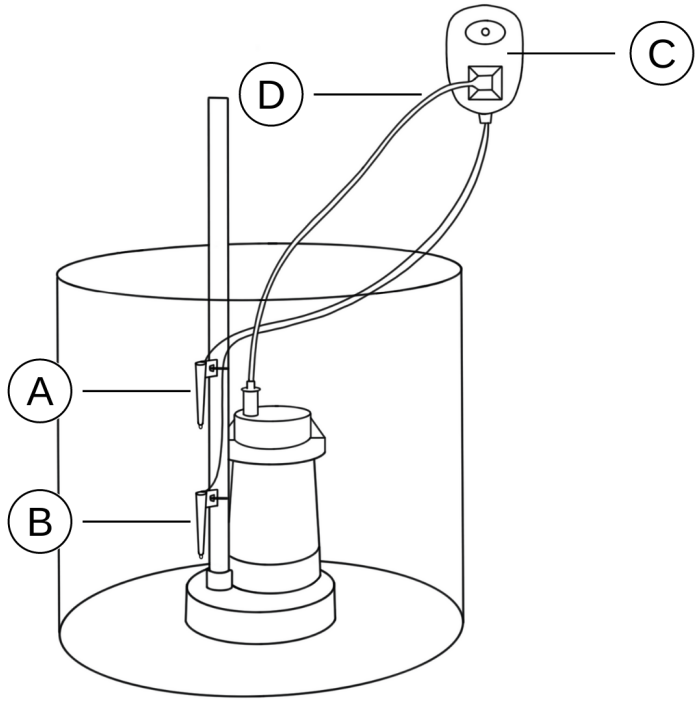
The **HC6000v2 Sump Pump Switch with Dual-Sensors and Built in Alarms** will provide you with years of trouble-free, worry-free service after completing a simple and straightforward installation process. See **Troubleshooting** section for Smart Button, LED, and Alarm specifications. This product is not rated for outdoor use.

READ PRIOR TO INSTALLATION:

1. The **"piggyback plug"** attached to the mechanical float switch ***cannot be used with the HC6000v2.*** It must be disconnected and remain disconnected.
2. If your sump pump has **internal float switch wiring**, i.e. does not have a "piggyback plug", then you ***must*** secure the float in an **upward position** as if the pit were full. This assures that the internal switch is always closed and that the pump is enabled.
3. Pits that receive water from a water softener or that have **high mineral/iron content** require an **alternative installation method**. Visit our website **www.hydrocheckproducts.com** for recommended installation instructions for these applications using our **Installation Kit.**

Step-by-Step Installation

Step 1	Unplug the sump pump from the back of "piggyback plug".
Step 2	Unplug the "piggyback plug" from the 120 VAC and set aside. The HC6000v2 completely replaces this component.
Step 3	Secure the **red sensor** (A) to the discharge pipe with tie wrap where the pump is intended to turn on. **NOTE:** Recommended height for the Red Sensor is slightly below the Drain Tile (Water Inlet Pipe).
Step 4	Secure the **black sensor** (B) to the discharge pipe with tie wrap where the pump is intended to turn off.
Step 5	Check that the red sensor (A) is positioned **above** the black sensor (B) so that the pump cycle is at least 3 seconds. **NOTE:** If the cycle time is too short (less than 3 seconds) the LED will flash and a steady alarm will sound.
Step 6	Plug the control module (C) into the 120 VAC outlet. **NOTE:** The output will turn on briefly and the LED will illuminate red. If the Red Sensor detects water, a pump cycle will begin.
Step 7	Plug the sump pump power cable (D) into the control module (C). **NOTE:** The HC6000v2's output is rated for a maximum of ¾ HP and/or 13.8 amps at 120 VAC.
Step 8	TEST YOUR INSTALLATION BEFORE LEAVING IT FOR UNATTENDED USE. **NOTE:** This product **will not work if tested in a cup of water.** See *How the Sensor Works: Do I need a ground wire?* below for more information.



Installation Key

A. Red Sensor (High Sensor)	C. Control Module
B. Black Sensor (Low Sensor)	D. Sump Pump Power Cable

*"Piggyback plug" and 120 VAC outlet not pictured

How the Sensor Works: Do I need a ground wire?
The sensor detects the presence of water by using a continuity circuit. The continuity circuit works by allowing a very small current to flow from the sensor, through the water, to the ground when the tip of the sensor is in water. When no water is present, the circuit is broken and no current flows. Normally, the pump provides the ground reference needed for the continuity circuit to work, but occasionally it won't. If the pump cycle is at least 3 seconds long, a **Flashing Red LED and audible alarm indicate a weak ground reference**. When this happens, it is necessary to provide a ground reference for the sensor to work.

Adding a Ground Wire:

Step 1	Strip 1 inch of insulation off each end of a 14 AWG length of wire.
Step 2	Secure one end of the wire to a metal water pipe or other metal electrical conduit.
Step 3	Place the other end of the wire into the pit so that it is *below* the bottom sensor. **NOTE:** No danger of electrocution. Visit our website www.hydrocheckproducts.com for more information.

TROUBLESHOOTING:

Alarm & LED Guide

	Meaning	Possible Cause
Green LED	The switch's output is on (the pump is on).	None—Normal operation
Red LED	The switch's output is off (the pump is off).	None—Normal operation
Fixed Rate Alarm & Flashing LED (Green or Red)	1. Weak ground reference detected during last cycle. 2. Pump cycle is too short (less than 3 seconds)	See website for more information www.hydrocheckproducts.com 3
2-Beep Alarm	The switch did not detect a motor current during the previous pumping cycle.	• Pump is not plugged in • Mechanical float switch is not disabled • Pump failure
3-Beep Alarm (High Water Alarm)	Water level did not drop below the Red Sensor (High Sensor) within 20 seconds of pump cycle start.	• Pump failure • Blocked or frozen discharge pipe

Smart Button Features

Goal	Method
Silence Alarm	Pressing and releasing the Smart Button while an alarm is active will silence the alarm for 24hrs.
Disable Alarm	Pressing and holding the Smart Button while an alarm is active will disable the alarm until the switch is reset. The Smart Button should be pressed and held until the device sounds a short beep followed by a long beep, indicating that the alarm was successfully disabled.
Switch Reset	Press and hold Smart Button while plugging switch into a 120 VAC outlet.
Manually Run Pump	Press and hold the Smart Button for 5 seconds while the LED is solid red. The pump will run until the button is released.
Turn Pump Off	Press and hold the Smart Button for a minimum of 5 seconds while the pump is on. The pump will turn off when the button is released.

Warranty:
STAK Enterprises Inc. warrants the model **HC6000v2** to be free from defects in materials and workmanship for its normal, useful life, for a period of 5 years 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 HC6000v2 which is found to be defective in materials or workmanship under normal use and service during the 5 year period 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.

THE DURATION OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THAT OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES, SHALL BE LIMITED TO THE NORMAL, USEFUL LIFE OF THE PRODUCT, COMMENCING WITH THE DATE OF PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER.