HC6000v2 Electronic Sump Pump Switch

with Hi-Lo Dual Sensors and Built-in Alarms

HydroCheck
Engineered for reliability

Overview:

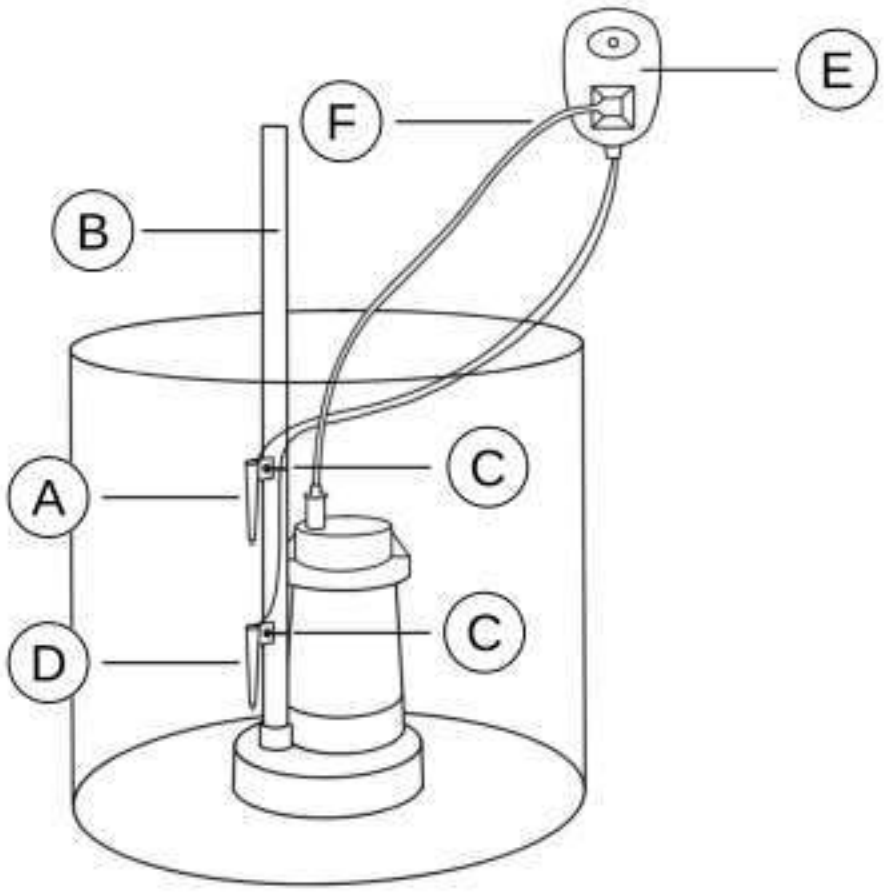
The HydroCheck **HC6000v2 Electronic Sump Pump Float Switch with Hi-Lo Dual Sensors and Built-in Alarms** is a universal float switch that works with all types of sump pumps. The pump cycle will start when water reaches the Hi-Sensor (Red) and stop when water drops below the Lo-Sensor (Black). Easily achieve your desired cycle length by adjusting the distance between the sensors. See the Troubleshooting section for Smart Button, LED and Alarm specifications. 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**. Use the HydroCheck **Sensor Installation Kit** to ensure maximum reliability in all installation applications.

Step-by-Step Installation

Step 1	Unplug the sump pump from the back of the "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** (B) with **tie wrap** (C) 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** (D) to the **discharge pipe** (B) with **tie wrap** (C) where the pump is intended to turn off.
Step 5	Check that the **red sensor** (A) is positioned **above** the **black sensor** (D).
Step 6	Plug the **control module** (E) into a 3-prong 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 cord** (F) into the **control module** (E). **NOTE:** The HC6000v2's output is rated for a maximum of 1 HP and/or 15 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?* On Page 2 for more information.



Installation Key

A. Red Sensor (Hi-Sensor)	D. Black Sensor (Lo-Sensor)
B. Discharge Pipe	E. Control Module
C. Tie Wrap	F. Pump Power Cord

*"Piggyback plug" and 120 VAC outlet are not pictured

Product Specifications

Product Dimensions	2.8 x 2.5 x 3.5 in
Weight	14.4 oz
Output Rating	120 VAC, 15 Amp, 1 HP
Alarm Rating	80 dB
Power	120 VAC, 60 Hz
Sensor Cable Length	12 ft
Anti-Airlock Cycle	2 Attempts

How the Sensors Work: Do I need a ground wire?

The sensors detect the presence of water by using a continuity circuit. The continuity circuit works by allowing a very small current to flow from each the sensor, through the water, to 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. A **Flashing LED and audible alarm indicates 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 copper water pipe or metal electrical conduit.
Step 3	Place the other end of the wire into the pit so that it is *below* the Lo-Sensor. **NOTE:** No danger of electrocution. Visit our website www.hydrocheckproducts.com for more information.