

# HC8000T Sump Pump Switch

## With Run-Time Adjustment and Built-in Alarms

### Overview:

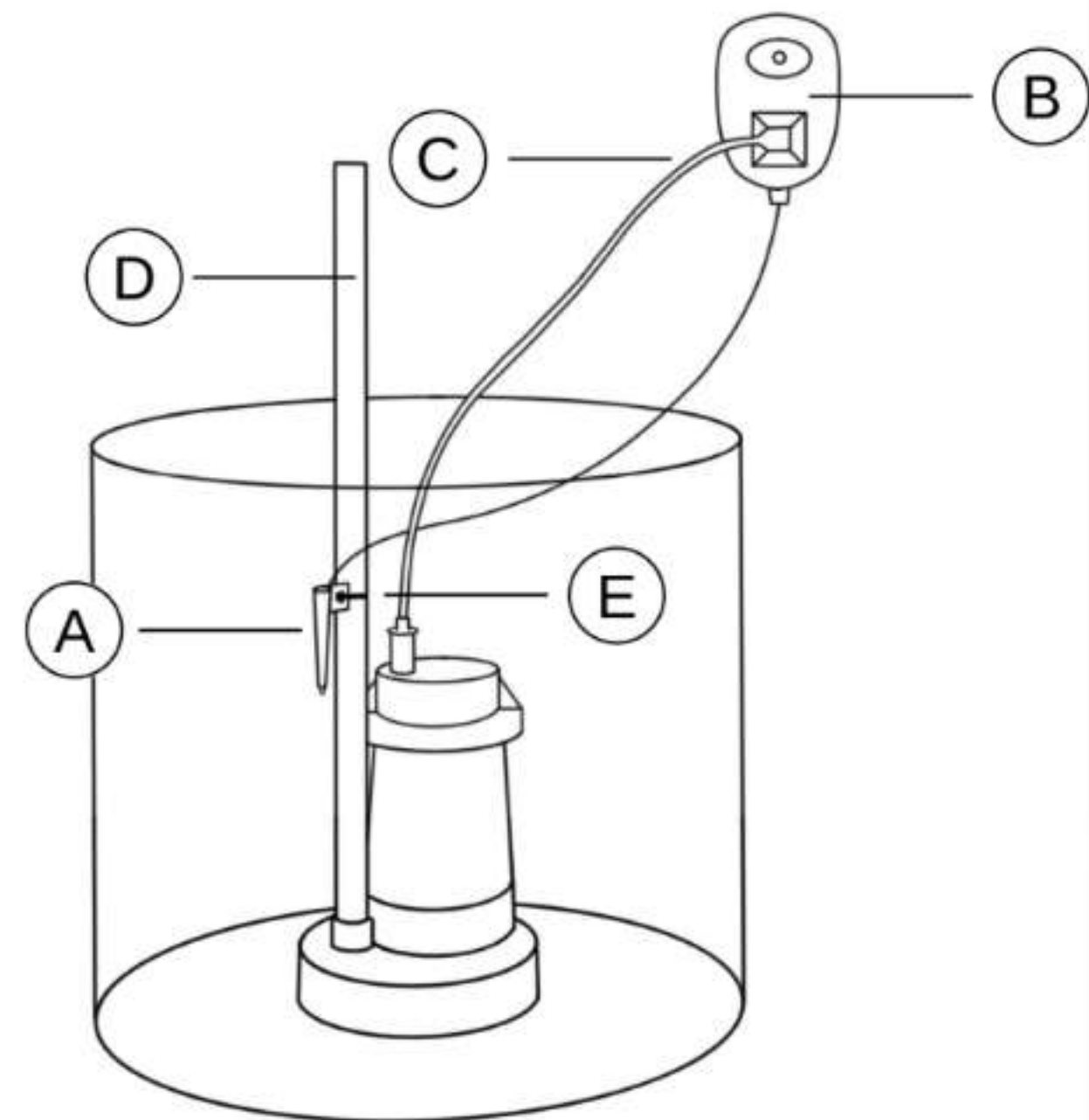
The HydroCheck **HC8000T Electronic Sump Pump Float Switch with Programmable Cycle Length and Built-in Alarms** is a universal float switch that works with all types of sump pumps. Use the Smart Button to easily program a precise cycle length for your sump pump that will begin when water reaches the sensor tip. 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 HC8000T**. 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.

### Step-by-Step Installation

<b>Step 1</b>	Unplug the sump pump from the back of “piggyback plug”.
<b>Step 2</b>	Unplug the “piggyback plug” from the 120 VAC and set aside. The HC8000T completely replaces this component.
<b>Step 3</b>	Secure the <b>sensor (A)</b> to the <b>discharge pipe (D)</b> with the <b>tie wrap (E)</b> where the pump is intended to turn on. <b>NOTE:</b> Recommended height for the sensor is slightly below the Drain Tile (Water Inlet Pipe).
<b>Step 4</b>	Plug the <b>control module (B)</b> into a 3-prong 120 VAC outlet.
<b>Step 5</b>	Plug the <b>sump pump power cord (C)</b> into the <b>control module (B)</b> .
<b>Step 6</b>	Adjust run time by following <b>Run Time Adjustment</b> steps in the table below. <b>NOTE:</b> This product defaults to a 10 second run duration and can be reprogrammed at anytime. Achieving the optimal pump cycle length may take several attempts.
<b>Step 7</b>	TEST YOUR INSTALLATION BEFORE LEAVING IT FOR UNATTENDED USE. * See How The Sensor Works at bottom of page



### Run Time Adjustment

<b>Step 1</b>	Silence or eliminate all active alarms: There should be no audible alarms active (See “ <b>Smart Button Features</b> ” on how to disable alarm).
<b>Step 2</b>	Press and hold the <b>Smart Button</b> for approximately 5 seconds, or until the output turns on and the light starts to flash green. The output turning on marks the start of the desired run time. <b>NOTE:</b> If the pump is in the middle of a cycle, first cancel the cycle by pressing and releasing the Smart Button.
<b>Step 3</b>	Release the <b>Smart Button</b> when the desired run time is reached. The output will turn off and the switch is now reprogrammed with the new run duration. <b>NOTE:</b> Loss of power does not affect programmed run time.

### Installation Key

A. Sensor	D. Discharge Pipe
B. Control Module	E. Tie Wrap
C. 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

\* **NOTE:** This product **will not work if tested in a cup of water**.

### How the Sensor Works: Why won't my pump turn on?

The sensor detects the presence of water by using a continuity circuit. The continuity circuit works by allowing a 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 doesn't turn on when water hits the sensor, this indicates a weak ground. When this happens, it is necessary to provide a ground reference for the sensor to work.

### Adding a Ground Wire:

<b>Step 1</b>	Strip 1 inch of insulation off each end of a 14 AWG length of wire.
<b>Step 2</b>	Secure one end of the wire to a metal water pipe or other metal electrical conduit.
<b>Step 3</b>	Place the other end of the wire into the pit so that it is <i>below</i> the sensor. <b>NOTE:</b> No danger of electrocution.