

HC7000v2 Utility Pump Switch

with Automatic Turn On/Off, Hi-Lo Dual Sensors and Built-in Alarms



Overview:

The HydroCheck **HC7000v2 Electronic Utility Pump Switch with Automatic Turn On/Off, Hi-Lo Dual Sensors and Built-in Alarms** automatically controls the on/off function of any utility pump and only runs the pump when water is present. To ensure maximum water removal, an additional run time can be programmed using the Smart Button that begins once the water has dropped below the Lo-Sensor. See the Troubleshooting section for Smart Button, LED and Alarm specifications. Not rated for outdoor use.

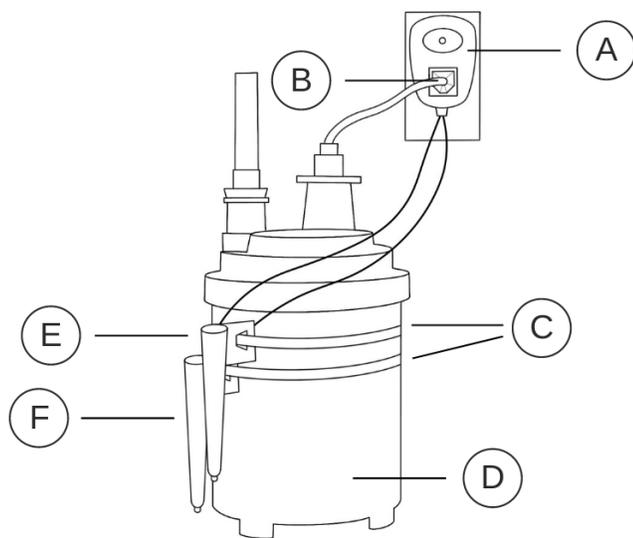
READ PRIOR TO INSTALLATION (How It Works):

The HC7000v2 is designed with an **Additional Run Time** feature that can be programmed using the Smart Button. This feature helps to ensure that the utility pump has pumped to its lowest possible depth by allowing it to run for a designated amount of time after the water has dropped below the lo-sensor. The complete operation works as follows:

1. When both the Hi-Sensor and the Lo-Sensor are detecting water, the HC7000v2 turns on the pump and operates in Hi-Lo Mode where the sensor positions determine how long the pump runs for.
2. When the water level drops below the Lo-Sensor, the HC7000v2 switches to Timed Mode, where the pump is run for an Additional Run Time as programmed using the Smart Button.
3. When the Additional Run Time expires, the HC7000v2 turns the pump off, and waits for the next cycle to begin.

Step-by-Step Installation

Step 1:	Plug the control module (A) into a 3-prong 120 VAC outlet. NOTE: The output will turn on briefly and the LED will illuminate red.
Step 2:	Plug the utility pump power cord (B) into the control module (A). NOTE: The HC7000v2's output is rated for a maximum of 1 HP and/or 15 Amps at 120 VAC.
Step 3:	Using a provided tie wrap (C), secure either one of the sensors directly to the utility pump (D) where the pump is intended to turn on. This is the Hi-Sensor (E).
Step 4:	Using the other provided tie wrap (C), secure the second sensor directly to the utility pump (D) so that the tip of the sensor is positioned just above the pump's lowest pumping capability*. This is the Lo-Sensor (F). *Refer to the pump's manual for the exact minimum water level specifications.
Step 5:	Adjust the Additional Run Time by following the Run Time Adjustment steps on Page 2. NOTE: This product defaults to a 5 second Additional Run Time and can be reprogrammed at anytime. See <i>Read Prior to Installation (How It Works)</i> above for more information about this feature.
Step 6:	TEST YOUR INSTALLATION BEFORE LEAVING IT FOR UNATTENDED USE. NOTE: This product will not work if tested in a cup of water. See the Product FAQ page on our website for more information.



Installation Key

A. Control Module	D. Utility Pump
B. Pump Power Cord	E. Hi-Sensor
C. Tie Wrap	F. Lo-Sensor

Additional Run Time Adjustment

Step 1	Mute any active alarms. There should be no audible alarms when programming the Run Time Adjustment . (See "Alarm Operation" below for more information about muting alarms).
Step 2	Press and hold the Smart Button 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 Additional Run Time . NOTE: If the pump is in the middle of a cycle, first cancel the cycle by pressing and releasing the Smart Button.

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

Step 3	Release the Smart Button when the desired run time is reached. The output will turn off and the switch is now reprogrammed with the new Additional Run Time . NOTE: Loss of power does not affect programmed run time.
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TROUBLESHOOTING:

Alarm & LED Guide

	Meaning	Possible Cause
Red LED	The switch's output is off (the pump is off).	None—Normal operation
Green LED	The pump is on and water is above the Lo-Sensor.	None—Normal operation
Flashing Green LED	The pump is on and operating in Timed Mode.	None—Normal operation
Fixed Rate Alarm (Weak or Missing Ground)	Weak ground reference detected during a pump cycle.	See website for more information www.hydrocheckproducts.com
2-Beep Alarm (No Pump Current Detected)	The switch did not detect a motor current during a pump cycle.	<ul style="list-style-type: none"> • Pump is not plugged in • Pump failure
3-Beep Alarm (High Water Alarm)	High Water Alarm will sound if water does not drop below the Hi-Sensor within 25 seconds following two anti-airlock cycles. NOTE: See the Product FAQ page on our website for more information about airlock cycles www.hydrocheckproducts.com	<ul style="list-style-type: none"> • Pump failure • Pump can't keep up • Blocked or frozen discharge pipe • Trapped air is preventing normal pump operation (airlock)

Smart Button Features

Goal	Method
Mute 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 indicating that the alarm was successfully disabled.
Switch Reset	Press and hold Smart Button while plugging switch into a 120 VAC outlet. A short beep will sound to indicate that the switch has been reset. Resetting the switch returns all settings back to the original factory defaults.
Cancel Cycle	Press and release the Smart Button while the pump is on to cancel the cycle.

WARRANTY:

STAK Enterprises Inc. warrants the model **HC7000v2** 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 HC7000v2 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.