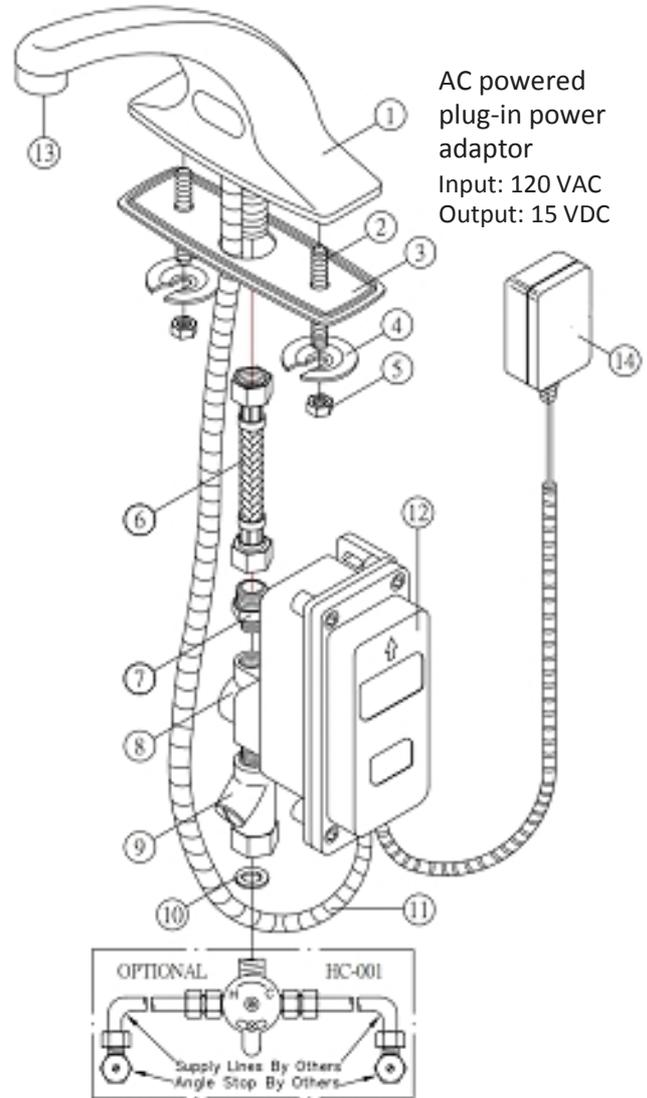




ISO 9001 Certified

# 1000C Series Sensor Operated Faucet Installation Instructions

1. Prior to installation, thoroughly flush all water lines and replace stop washers, if required.
2. To ensure proper operation, "DRY TEST" the faucet by plugging the **Sensor Eye Cable (11)** into the matching connector on the PC board inside of the **Control Box (12)**.
  - a. **AC Powered:** Connect the **Power Adapter (14)** to the PC board inside of the **Control Box (12)**, then plug the Power Adapter into a 120 V AC wall outlet. Place your hand in front of the sensor eye and listen for a clicking sound. If there is no clicking sound, call the factory.
  - b. **Battery Powered:** Properly install new batteries into the battery holder and ensure the battery holder is connected to the PC board. Place your hand in front of the sensor eye and listen for a clicking sound. If there is no clicking sound, call the factory.
3. After a successful "DRY TEST", unplug the **Sensor Eye Cable (11)** and **Power Adapter (14)** or battery holder from the PC board.
4. Attach the **Supply Tube (6)**, and **Mounting Bolts (2)** to the inlet on the **Faucet Body (1)**.
5. Install the **Mount Gasket (3)** onto the Faucet Body and mount the faucet onto the sink. Apply plumber's putty to the bottom of the gasket and secure the faucet using the **Slotted Washers (4)** and **Mounting Nuts (5)**.
6. Reconnect the **Sensor Eye Cable (11)** and **Power Adapter (14)** or battery holder as described in step #2 making sure the cables going into the **Control Box (12)** are seated properly. Reinstall the cover for the **Control Box (12)** and tighten the screws to ensure water resistance. Coil excess cables and secure in a safe, dry area.
7. Attach the **Solenoid Valve (8)** to the **Supply Tube (6)** using the **Compression Fitting (7)**. Insert the **Nylon Washer (10)** into the swivel nut located on the **In-Line Filter (9)**.
  - a. Pre-tempered or cold water only: Use a union fitting (not supplied) to connect the supply line (not supplied) from the supply stop to the **In-Line Filter (9)**.
  - b. Tempered water: Attach an optional Hydrotek **HC-001** or **HC-003** mixing valve to the **In-Line Filter (9)**. Connect the supply lines (not supplied) to the mixing valve.



AC powered  
plug-in power  
adaptor  
Input: 120 VAC  
Output: 15 VDC

### USE TEFLON TAPE FOR ALL CONNECTIONS, NO PIPE DOPE

8. Turn on the water and check for leaks. Plug the **Power Adapter (14)** into a 120V AC outlet (for AC Powered). Push the reset button on the PC Board. Place hand in front of the sensor eye to activate water flow. Remove hands and the water should stop. If not, refer to the troubleshooting guide.
9. Periodically clean the filter element in the **In-Line Filter (9)**.
10. For minor adjustments, refer to instructions located inside the cover of the **Control Box (12)**.
11. **IMPORTANT:** The stop valve should never be opened to the point where the water flow exceeds the flow capability of the fixture. The fixture must be able to accommodate the continuous water flow from the faucet in the event of a failure. Should the fixture overflow due to water exceeding the capability of the fixture and/ or the drain pipe, Hydrotek will not be responsible for any damages.

### Parts:

1. Faucet Body	8. Solenoid Valve
2. Mounting Bolt	9. In-Line Filter
3. Mount Gasket	10. Nylon Washer
4. Slotted Washer	11. Sensor Eye Cable
5. Mounting Nut	12. Control Box
6. Supply Tube	13. Aerator
7. Compression Fitting	14. Power Adapter

HYDROTEK INTERNATIONAL, INC.  
5055 Forsyth Commerce Rd., Ste 124  
Orlando, FL 32807  
800.922.9883 (Phone)  
866.670.5580 (Fax)  
www.hydrotekintl.com



# HYDROTEK AUTOMATIC FAUCET TROUBLE SHOOTING GUIDE

Normal operation: When electricity is connected or new batteries are inserted, or RESET button is pushed, the lights on Printed Circuit Board (PCB) will flash and Solenoid valve starts with a clicking sound. When a user's hands are placed under the spout, the red light comes on and stays on. and water starts to flow. Water stops when hands are removed. Red indicator light flashes when batteries are low(Battery type). Please note: Always push the RESET button BEFORE diagnosing any problems and AFTER taking a corrective step.

PROBLEM	POSSIBLE CAUSE	TO DIAGNOSE	REMEDY
FAUCET WILL NOT TURN ON	Water not on	Check water supply	Turn on water supply.
	Power supply failure.	Check power output, wires and polarity(AC type) or batteries, polarity of battery & connections(Battery type).	Replace power supply and proper connections (AC type). Replace batteries, reconnect. Push RESET.
	Batteries are weak.	Red indicator light flashes, no click.	Replace batteries and push RESET.
	Sensor distance is too short.	Use hand/Palm to find focal point.	Adjust sensor distance (Turn SDA clockwise) , push RESET.
	Electronic PCB is defective.	Replace Adapter (AC type), change batteries (Battery type) and Reset the unit, no light or action.	Replace PCB. Push RESET.
	Sensor Eye is defective.	Plug in adapter (AC type), Reinsert batteries (Battery type), and place hands in front of sensor eye, no red lights shown.	Replace sensor eye and cable. Push RESET.
	Solenoid Valve is clogged.	Solenoid is clicking but no water.	Clean solenoid, blow free all bleed holes or replace control disc. Push RESET.
	In-Line filter is clogged.	Open clean-out trap and check filter.	Clean or replace the filter.
FAUCET WILL NOT SHUT OFF	Solenoid coil is defective.	Replace Power adapter (AC type) and Reset the unit, Insert new batteries(Battery type) and Reset the unit, light blinks normally, but no clicking.	Replace solenoid coil. Push RESET.
	Solenoid valve is normally closed. Turn off water and activate the faucet, if there is a clicking sound, then the solenoid is dirty. If there is no clicking sound, then replace solenoid valve. Other factors could be Sensor distance is too long (adjust SDA counterclockwise); Electronic PCB is defective. If faucet is dripping, then the solenoid valve is dirty. Follow same procedures as above for remedies.		

**NOTE :** If run-on condition in 3000 & 4000 Series models, be sure that right faucet handle is in the "AUTO" mode position.

**IMPORTANT:** Periodical maintenance is required for a smooth and trouble-free operation of the faucet.

For more detailed procedures for above remedies, call Hydrotek at 1-800-922-9883.