

Parts List

(1) Wall mount wash station
(5) AC or Battery powered sensor faucet assembly
(3) Wall-mounting brackets
(4) Support brackets
(8) Nuts and washers for mounting sink to support brackets
(5) Mixing check valve

 \Box (3) Strainer assembly with basket

Installation Instructions

Step 1

- 1. Establish sink location on the wall.
- Determine desired height for the top of the backsplash from finished floor and draw a level line which will be the top edge of the wall mounting bracket.
- 3. Hold the wall mounting bracket against the wall and mark the wall where the holes are. Drill holes and secure bracket to the wall as shown in illustration A. Screws are not provided.

Step 2

- 1. Install strainer assembly.
- 2. Install faucets to the sink following the instructions provided with sensor unit.
- 3. Attach supply tube with elbow to back of faucet.
- 4. Install mixing check valve and compression fitting to control box of each sensor faucet.

Step 3

- 1. Position the sink onto wall bracket.
- Loosely attach support brackets under sink and push against wall then mark holes for drilling as shown in illustration B.
- 3. Remove support brackets from sink and drill holes for mounting fasteners (not provided).
- 4. Re-mount support brackets to sink and fasten to wall.

Step 4

- 1. Connect waste line to strainer assembly (s).
- 2. Mount sensor control box at desired location on wall.
- 3. Connect power line from sensor to control box.
- 4. Attach supply tube from faucet to control box.
- 5. Connect hot and cold water from the source to mixing check valve (s).
- Remove aerator from the spout assemblies and flush water system. (see step 7 sensor installation instructions)
- 7. Check connections for leaks.
- 8. Replace aerator onto the spout (s).
- 9. We recommend sealing top of backsplash to wall as shown in illustration C.

Go to columbiasinks.com for more information on replacement parts and installation videos.

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Illustration A







Illustration C



Notice for California Consumers

WARNING: This product can expose you to chemicals including Chromium (hexavalent compounds), Lead, and Phthalates (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

NOTE: Lead content originates from Brass components in valves and faucets and is certified under NSF/ANSI 372 as containing less than 0.25% lead in wetted surfaces. COLUMBIA PRODUCTS 800.626.2117 • columbiasinks.com • info@columbiasinks.com

WASH STATION WITH ELECTRONIC SENSOR

AC OR BATTERY POWERED

2

Tools Required

Tape measure
Adjustable wrench
Drill motor and drill bits
Pipe wrench
Level
Safety glasses
Screw drivers: phillips and standard
Pencil
Socket wrench

WASH STATION WITH ELECTRONIC SENSOR

AC OR BATTERY POWERED

3





4" (101.6mm)

36.5" (927mm)

Hole Configurations

36.5" (927mm)



– 21" (533.4mm) 94" (2,387.6mm)

Wall Mounting Detail

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CARE AND MAINTENANCE

Care and Maintenance

Regular cleaning will preserve the appearance and integrity of the surface. Stainless steel can easily be cleaned and kept stain-free using various methods.

Recommendations:

- Clean with an abrasive cleaner like, Bon-Ami or Zud weekly or bi-weekly. Always scrub in the direction of the grain or polish lines. Another option is to use Baking soda. Make sure to rinse well and dry. Illustration A
- Most soaps and detergents contain chlorides, we recommend rinsing the stainless-steel sink with hot water after use, to prevent corrosion. Illustration B
- · Regularly dry your sink to prevent water and surface rust marks. Illustration C
- · Do not leave salt in the sink or near a saltwater environment.
- Use a quality stainless steel cleaner and follow cleaner instructions. Wipe along the grain (NOT against). Illustration D

Things to Avoid:

- · Avoid harsh abrasive cleaners and corrosive chemicals.
- Avoid abrasive scouring pads, carbon steel brushes and steel wool for cleaning as iron particles left behind can lead to rust.
- \cdot Avoid the use of oily rags or greasy cloths when wiping the surface. To avoid water spots, wipe dry after use.

Additional Tips:

- · Regularly drying your sink works wonders to prevent water and surface rust marks.
- · Wear rubber gloves when working with cleaners to protect your hands.
- · Never mix cleaners. Some products react to create dangerous gases.
- There are thousands of blended or compound cleaners on the market. Users are advised to contact suppliers of solvents for information on their applications on stainless steel.
- · DO NOT USE SOLVENTS in closed spaces or while smoking.
- · Note: Columbia does not recommend use with harsh chemicals.

Illustration A

Illustration B

Illustration C

Illustration D

SANI-LAV Sensor Faucets

Wall Mounted AC and Battery Powered Meets ANSI/ASME A112.18.1 M-1989

Operation

- 1. A continuous, invisible beam is emitted from the sensor.
- 2. The faucet is activated by placing hands under the spout within the effective range of the beam. Water starts to flow immediately for as long as the user's hands remain in the sensor range.
- 3. When hands are removed, the water flow stops. The sensor will automatically reset and be ready for the next user.
- In the battery powered version, a flashing red light will indicate a low battery condition.

Specifications Faucet Construction

Faucet Construction	Solid brass, chrome plated
Control Circuit	Solid state, AC or battery, switchable
– Auto. Time-out	Preset at 20 seconds and adjustable to 10,
	30, or 60 seconds
 Line Purge (request only) 	2 minute run every 12 hours
	or 24 hours
 Scrub Mode Delay (request only) 	60, 120, 180 seconds
– Sensor Range	Preset and adjustable
 Shut-off Delay 	Presets and adjustable from 1-8 seconds
Control Cable	Armored, vandal resistant
Solenoid Valve	6V DC, normally closed
– Wattage: 0.4W (idle), 5W (in use)	

2.0 or 0.5 GPM, Laminar Flow Control

Input AC 120V 60 Hz or 220V

Output DC 12V, 0.8A/Class 2

Input AC 120V, Output DC 12V, 3A

400,000 on/off cycles, up to 4 years

Armored, vandal resistant

Serves up to 8 faucets

(4) AA Alkaline Batteries

- Operating Pressure: 5 psi to 125 psi

Flow Control

AC Mode

Power Adapter – Standard Plug-in

– (UL/CSA) Power Cable – Optional Multi-Unit Adapter

- (UL/CSA)

Battery Mode Battery Powered Models

Battery Service Life

Package Includes

(1) Faucet with electronic sensor

- (1) Control box w/6V DC solenoid
- (1) 12V DC plug-in power adaptor (H-6700C, -DC, -LR and -LRDC only)
- (1) In-line filter with clean-out trap
- (1) 18" Flex, S.S. supply tube, 3/8"(1) 6" Gooseneck Spout
- (1) Mounting hardware
- (1) 2.0 GPM Flow Control(4) AA Alkaline batteries (HB-6700C, -DC, -LR, -LRDC only)
- (1) Battery holder (HB-6700C, -DC, -LR, -LRDC only)

Dimensions

 Base Width (Outside Measurement) 	2-1/4"
– Base Depth	2-1/2"
 Faucet Height (Aerator to Base) 	8-3/4"
– Faucet Height Overall	12-3/4"
– Depth (Center of Aerator to Center of Faucet Base)	5-3/8"
 Mounting Bolt Length 	1-7/16"
– Mounting Bolt Pattern	Single-hole mount

Optional Variations and Accessories

- 0.35, 0.5, 1.5, 2.2 GPM Laminar Flow
- HC-010 Multi-Unit Voltage Adapter (AC Powered Only) 8 units
- HC-0104 Multi-Unit Voltage Adapter (AC Powered Only) 4 units
- HC-001 Mixing/Check Valve (Mechanical)
- HBL-04-LR Thermostatic Mixing Valve with Checks (Low Lead)
- 8" deep Gooseneck and 6" or 8" Swing Swing SpoutModel

Model	Sensor Type	Flow-Rate
ES2RL	AC Powered	Standard 2.0 GPM
ES2RL-0.5	AC Powered	Low-Flow 0.5 GPM

Model	Sensor Type	Flow-Rate
ESB2RL	Battery Powered	Standard 2.0 GPM
ESB2RL-0.5	Battery Powered	Low-Flow 0.5 GPM

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DC Powered Sensor Operated Mixing Faucet Installation Instructions

- 1. Prior to installation, thoroughly flush all water lines and replace stop washers, if required.
- To ensure proper operation, "DRY TEST" the faucet by plugging the Sensor Eye Cable (17) into the matching connector on the PC board inside of the Control Box (18).
 - a. **AC Powered:** Connect the *Power Adapter (19)* to the PC board inside of the *Control Box (18)*, 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 (17)* and *Power Adapter (19)* or battery holder from the PC board.
- Loosen Flow Control Device (1) and assemble the Gooseneck Spout (2) using the Split Washers (4) and Spout Nut (3). Mount the Gooseneck Spout (2) onto the Body (5). Feed the Sensor Eye Cable (17) through the sink wall and tighten the faucet onto the sink using the O-Ring (8), Washer (9), and Mounting Nut (10). Attach the 90-Degree Elbow (11) to the Supply Rod (7). USE TEFLON TAPE ONLY, NO PIPE DOPE
- Reconnect the Sensor Eye Cable (17) and Power Adapter (19) connections described in STEP #2, making sure the cables are seating in the Control Box (18) housing properly.
- Attach the *Compression Fitting (13)* to the *Solenoid Valve (14)* and connect it to the *Elbow (11)* using the *Supply Tube (12)*. Insert the *Nylon Washer (16)* into the swivel nut located on the *In-Line Filter* (15).
 - 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 (15).*
 - b. Tempered water: Attach an optional Hydrotek *HC-001* or *HC-003* mixing valveto the *In-Line Filter (15)*. Connect the supply lines (not supplied) to the mixing valve.
- 7. Turn on water and check for leaks. Plug the *Power Adapter (19)* into a 120V AC outlet (for AC Powered). Push the reset button on the PC Board. Reinstall the cover for the *Control Box (18)* and tighten screws to ensure water resistance. Place hands in front of the sensor eye to activate water flow. Remove hands and the water should stop. If not, refer to the troubleshooting guide or call the factory.
- 8. Periodically clean the filter element located inside the *In-Line Filter* (15).
- 9. For minor adjustments, refer to the instructions located inside the cover of the *Control Box (18)*.
- 10. **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. Flow Control Device
- 2. Gooseneck Spout
- 3. Spout Nut
- 4. Split Washer
- 5. Body
- 6. LED Sensor Cover
- 7. Supply Rod
- 8. O-Ring
 - 9. Washer
- 10. Mounting Nut

HYDROTEK INTERNATIONAL, INC.

5055 Forsyth Commerce Rd., Ste 124

11. 90 Degree Elbow

13. Compression Fitting

12. Supply Tube

14. Solenoid Valve

15. In-Line Filter

18. Control Box

16. Nylon Washer

17. Sensor Eye Cable

19. Power Adapter

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Sensor Operated Mixing Faucet
Troubleshooting Guide

Normal Operation: When power is connected, the faucet will immediately perform diagnostic function. You will hear a clicking sound and see lights flash. When the user's hands are placed under the spout, the light will flash once and water will start to flow. Water flow will stop when hands are removed. The red indicator light will flash when the batteries are low.

Turn the manual handle clockwise to increase temperature and counter-clockwise to decrease.

Problem	Possible Cause	To Diagnose	Remedy
	Water not turned on	Check water supply	Turn water on
	Power supply failure	No light, no clicking: • Check batteries • Check power adapter	Reinstall or replace batteries/ Replace power adapter
	Low battery	Light continues to flash	Replace batteries
	Electronic PCB / Sensor is defective	No light, no clicking: • Reinsert batteries • Reattach power adapter	Replace electronic PCB
Faucet will not turn on:	Solenoid valve is clogged	Solenoid is clicking but no water is coming out	Clean solenoid
	In-line filter is clogged	Open clean-out trap and check filter screen	Clean or replace filter screen
	Solenoid coil is defective	Insert new batteries or reattach power adapter. Light blinks but no solenoid is clicking	Replace solenoid coil
	Flow control is clogged	Open flow control device and check	Celan the flow control device
Faucet will not shut off, has low glow, or drips:	The solenoid valve is normally closed. Turn off water and activate the faucet. If there is a clicking sound, the solenoid valve is dirty. If there is no clicking sound, then check the solenoid valve. If the faucet is dripping, clean the solenoid valve.		

IMPORTANT: Periodic maintenance is required for smooth and trouble-free operation of this faucet.

For service and inquiry about available repair kits, please call Hydrotek Technical Support at (800) 922-9883.

Care and Cleaning Instructions:

- WARNING! Using abrasive or chemical cleaners *will* damage the chrome or decorative finishes.
- Use only soap and water to clean the finish, then wipe dry with a clean cloth.
- If chemical cleaners are used for other parts of the lavatory, ensure that the faucet is protected from potential contact from those cleaners.

Sensor Operated Mixing Faucet Solenoid Valve Cleaning

1. Turn off water supply at stop valve.

2. Remove control box (if possible) to gain access to the solenoid valve.

3. Remove four Screws (#1) and separate the valve from the box.

4. Remove four Coil Screws (#2) and separate Coil (#3) from Valve Seat (#4).

5. Clean or replace Control Disc (#5), Disc Spring (#6), Piston, Piston Spring, and check the Piston Sleeve for corrosion.

6. Re-install all parts in same order as the diagram below.

7. Re-install solenoid on the control box and remount box in water line. 8. Check and clean Filter Screen (#24) in Filter Body (#22).

9. Reset P.C. Board and make sure solenoid clicks open and thumps closed.

10. Turn on water and check for leaks and proper operation.

(For further questions, please call Hydrotek Tech Support at 1-800-922-9883 ext. 103)

Sensor Operated Mixing Faucet Control Module Settings

Sensor Length Adjuster

Shut Off Time Delay (After hands are removed)

Sw1	Sw2	Sw2 Sw3	
On	On	On	1 Sec
On	On	Off	2 Sec
On	Off	On	3 Sec
On	Off	Off	4 Sec
Off	On	On	5 Sec
Off	On	Off	6 Sec
Off	Off	On	7 Sec
Off	Off	Off	8 Sec

Automatic Time Off (maximum run time after activation)

Sw4	Sw5	Time Off
On	On	OFF
On	Off	15 Sec
Off	On	30 Sec
Off	Off	60 Sec

Factory Preset

= Switch Position							
1	2	3	4	5	6	7	8

Sensor Distance

Swб	Mode	Distance
On	Std	4" - 12"
Off	Enhanced	10″ - 12″

To increase distance, turn adjuster CLOCKWISE To decrease distance, turn adjuster COUNTER-CLOCKWISE

Faucet Switch - DO NOT TOUCH

Sw7	Sw8	Mode
On	Off	Auto Faucet

IMPORTANT: Always push the Reset Button after any adjustments