

## L-990 Deck mounted sensor tap

Lovair L-990 series sensor tap deckmounted sensor tap available in either polished chrome or nickel plated finish, with battery power (L991) or mains power (L992). There is also available in battery or mains power versions that allow the user to adjust the temperature. (L993 -battery power and L994 – mains power)



The L-990 series tap is made from chrome or nickel plated brass, with an internal solenoid valve and separate power source.

### Operation

The user is to activate the tap by placing their hands within the range of the infra-red sensor, to cause the solenoid valve to open for a preset time. The valve will close a set time after the user's hands have been removed from the detection range.

### Maintenance

The tap should be regularly inspected and tested for correct function and performance. The in-line strainer filters fitted to the solenoid valve should be checked periodically to ensure that there is no debris or restriction to the water flow. This is particularly the case immediately after initial installation and in areas of hard water. It will be evident when it becomes necessary to check the filter, as the water flow will be reduced.

1. Isolate the water supply to the tap.
2. Disconnect the flexible hose from the solenoid valve.
3. Remove the filter, and check for any obstruction.
4. Rinse the filter under running water.
5. Reassemble the parts.
6. Turn on the water supply and check for any leaks.

With battery operated versions, (L991 & L993), the 6x AA batteries will need to be replaced at 9 monthly intervals, assuming average usage of the tap. For taps in high-traffic areas, we recommend that the batteries are changed every 6 months. When the battery is weakening, the LED in the sensor will flash at a constant rate when the user's hands are within the sensor range. The battery must be replaced within two weeks.

1. Remove cover fixing screws from the battery box, and remove the cover.
2. Remove the old batteries, and insert the new ones observing the correct polarity.
3. Replace the cover, making sure that the O-ring seal is in place to maintain the IP67 rating of the enclosure.

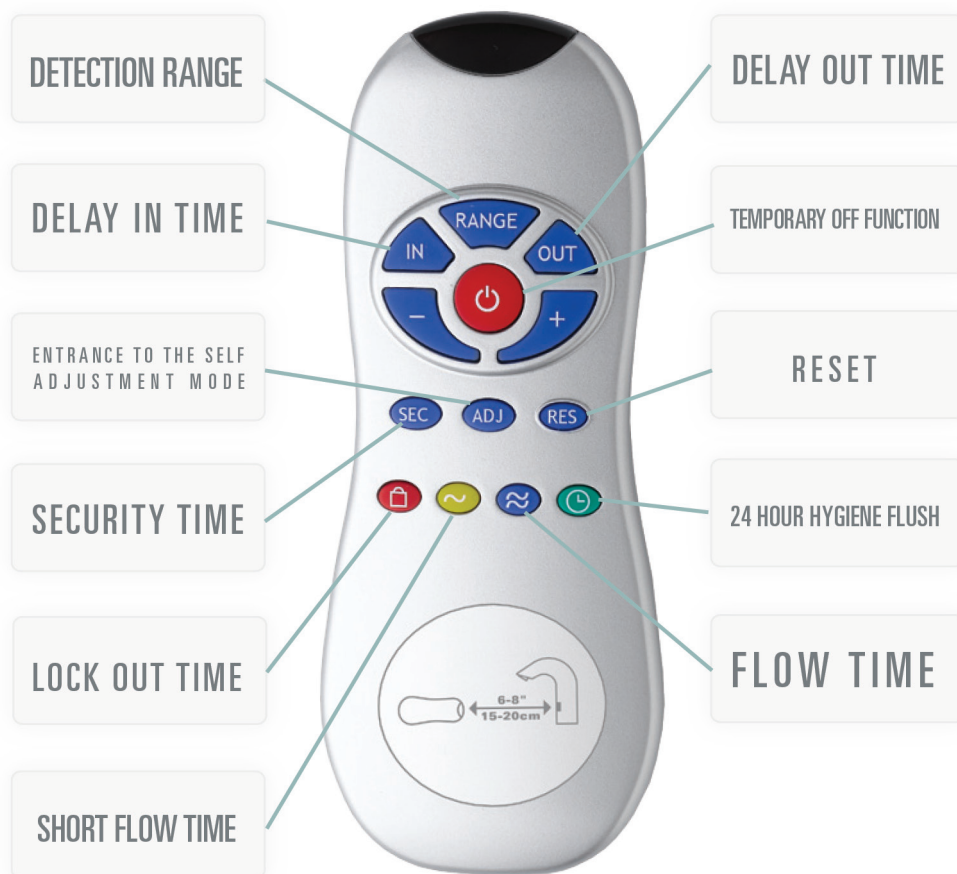
Spent batteries should be disposed of in accordance with the current WEEE regulations in force.

## Cleaning

Use a soft cloth or sponge with a mild solution of soapy water as part of the regular washroom janitorial routine. Do not use wire wool, abrasive or cream cleaners, or cleaning materials containing alcohol or acid as these will damage the surface finish. When cleaning surfaces in close proximity with harsh cleaning materials, the tap should be protected from any splashing.

## Adjustments

If required, the settings of the sensor can be adjusted using the remote control adjuster (available as a separate item Lovair Part No L0710005) See separate document for Operating Guide, available from [technical@lovair.com](mailto:technical@lovair.com).



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## Troubleshooting

Problem	Indicator	Cause	Solution
Water not flowing	Sensor flashes continuously when user's hands are within sensor range.	Low battery	Replace battery
	Light in the sensor does not flash when user's hands are within sensor range.	Range is too short	Increase range
		Range is too long	Decrease range
		Battery is completely out of power	Replace batteries
		Tap is in 'Security Mode' (see note below)	
		Sensor is detecting reflection from basin or other source	Remove obstruction
	Light in the sensor flashes once when user's hands are within range.	Connection between the sensor and the solenoid is disconnected.	Connect the sensor to the solenoid
		Debris or limescale in solenoid valve.	Remove solenoid valve, pull out the plunger and spring and clean the parts under running water. If necessary, use a proprietary limescale remover. When replacing the plunger, ensure the spring is in the correct orientation.
		The central orifice in the diaphragm is blocked or the diaphragm is damaged.	Clean orifice or replace diaphragm (Lovair part no L04500001)
		The water supply pressure is more than 8bar.	Reduce water supply pressure.
		The water supply pressure is under 8 bar and yet the pressure in the faucet's body is higher. This situation could be caused by a sudden increase in the water supply pressure that the backcheck prevents from dropping, even after water supply pressure drops under 8 bars.	Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that blocks the supply to the tap.
Water flow does not stop from spout.	Sensor flashes once when user's hands are within range	Debris or limescale in diaphragm.	Clean orifice or diaphragm (see instructions below)
	Light in sensor does not flash once user's hands are within sensor detection range	Sensor is dirty or covered	Clean sensor or remove obstruction.
		Sensor is picking up reflections from the basin or other object	Decrease sensor detection range, and / or remove cause of reflection.
Water flow diminished		In-line filter / strainer is blocked	Remove, clean and replace the filter.
Water flow is intermittent		Sensor is picking up reflections from the basin or other object	Decrease sensor detection range, and / or remove cause of reflection.

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## Troubleshooting Continued...

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**As can be seen from the above, reflection can be a major reason for a tap mis-functioning. Every step should be done to prevent reflection hindering the correct function of the tap. This will often mean that high-visibility clothing should not be worn when commissioning and maintaining Lovair sensor taps.**

The solenoid valve is under the cap at the top of the tap pillar. The valve can be inspected and cleaned as below:

1. Isolate the water supply to the valve.
2. Remove the grub screw securing the cap, and then pull the cap off to expose the valve.
3. Disconnect the electrical supply to the valve & unscrew the valve from the housing (an open ended or adjustable spanner will fit across flats moulded into the valve body).
4. Check the rubber diaphragm for any dirt & rinse. Also check (& clean if necessary) the valve seating in the solenoid valve housing.
5. Check that the magnetic plunger is correctly located & the small spring underneath it is in the correct orientation.
6. Refitting the valve is the reverse of removal.
7. Test tap for correct function.

## Limited Warranty

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As thought-leaders and pioneers in washroom style and technology, we continuously strive for the ultimate washroom experience. Our curiosity drives us to refine and innovate, to realise the potential of, and constantly challenge, what washrooms can be.

We are passionate about what we do and proud of what we have achieved and through collaboration with architects and building owners, and by being attentive to users' needs, we transform washroom experiences. Demonstrating our commitment to quality and our belief in the strength of our designs, we can offer the following warranties.

Lovair Ltd will warrant that its products will be free of manufacturing and material defects during normal use and environmental conditions as detailed below:

### **Sensor taps                      2 years' parts & labour**

If a defect is found in normal use, Lovair Ltd. will, at their discretion, repair, provide a replacement part or product, or make appropriate adjustments. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty.

Non-operation of the product due to environmental conditions beyond our control, installation error, incorrect maintenance, water quality, fair wear and tear, incorrect or inappropriate installation, misuse and abuse is not covered by the warranty.

Proof of purchase (original sales receipt) must be provided to Lovair Ltd. with all warranty claims. The above warranty is valid for goods supplied within the United Kingdom.

For goods supplied outside of the United Kingdom, Lovair Ltd will honour the above stated warranty periods for the parts only.

LOVAIR LTD DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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