

inta

Electronic Flush Valve with manual override for WCs

Models IR230CP & IR231CP

Installation and Maintenance Instructions



inta

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In this procedure document we have endeavoured to make the information as accurate as possible.

We cannot accept any responsibility should it be found that in any respect the information is inaccurate or incomplete or becomes so as a result of further developments or otherwise.

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Technical Data

Power Supply:	9V battery or 9V transformer
Operating Water Pressure:	1 - 8 bar (14.5 -116 psi)
Sensor range:	Factory setting 60cm. Adjustable.

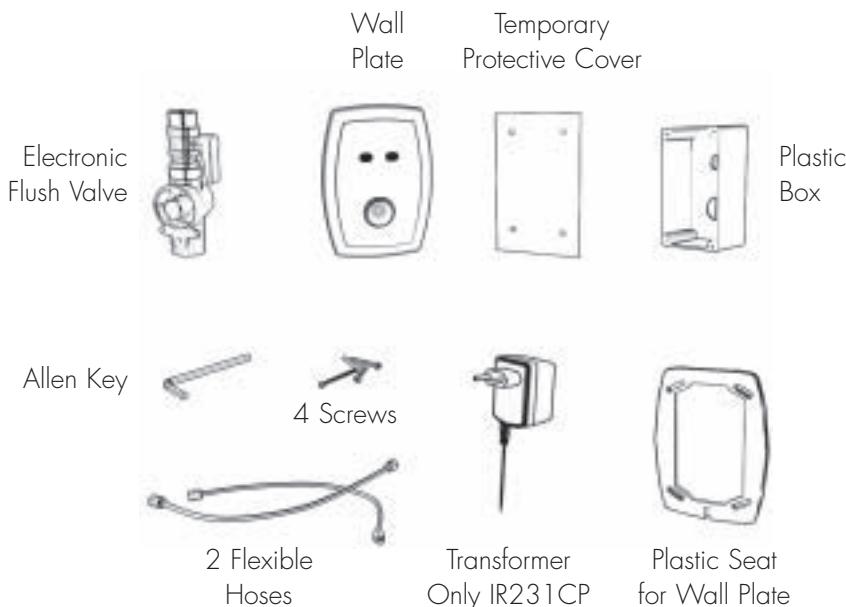
Check contents

Before commencing remove all components from packaging and check each component with the contents list.

Ensure all parts are present, before discarding any packaging. If any parts are missing, do not attempt to install your Inta electronic flush valve until the missing parts have been obtained.

IR230CP and IR231CP Flush Valve

Qty	Components
1 x	Electronic concealed flush valve
1 x	Wall cover plate
1 x	Plastic seat for the cover plate
1 x	Plastic box
1 x	Temporary protective cover
4 x	Screws
1 x	Allen key
2 x	Flexible hoses
1 x	Transformer - Only supplied with IR231CP



Pre-Installation Information

Warnings

Do not install the sensor facing a mirror or any other electronic system operated by an infra-red sensor.

To prevent reflection problems, it is recommended there should be a minimum distance of 1.5 m between the flush valve and other objects.

Preparation for Installation

Flush water supply lines thoroughly before installing the flush valve. Do not allow dirt, PTFE tape or metal particles to enter the valve.

Shut off the water supply.

Important: All plumbing is to be installed in accordance with applicable codes and regulations.

Installation

The Inta electronic flush valve is intended for concealed installation with the flow downwards towards the WC, with access to the valve and pipework from behind or with the valve and pipework sunk into the wall.

A service valve should be installed in the pipework to the flush valve to allow the water supply to be isolated should servicing be required in the future.

Ensure that the water supply is isolated before commencing work.

Cut an adequate opening into the wall to accommodate the dimensions of the box and insert the box through the hole.

Alternatively cut a deep enough hole for the box and channels for the pipework into the wall.

For the IR231CP with transformer it is recommended to wire a concealed electrical socket or one inside the channel for the pipework.

Insert the plastic box through the opening in the wall.

Ensure the box is adequately supported and secured

Connect the flush valve inlet to the water supply and the outlet to the pipe leading to the WC's inlet.

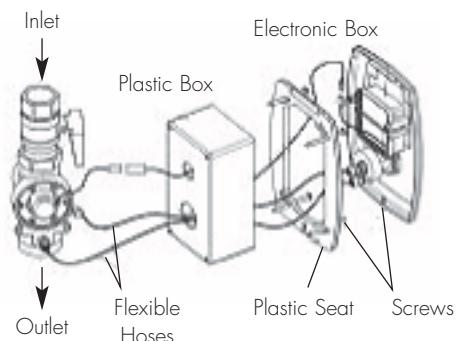
Fit the temporary protective cover to protect the flush valve.

Once the plumbing, tiling and electricity supply are finished, replace the temporary protective cover with the plastic seat for the cover plate, adjust using the four screws provided.

Connect the flexible hoses from the wall plate to the flush valve as shown.

If your model is a IR231CP, place the transformer near the electricity supply and thread the transformer's wire to the box.

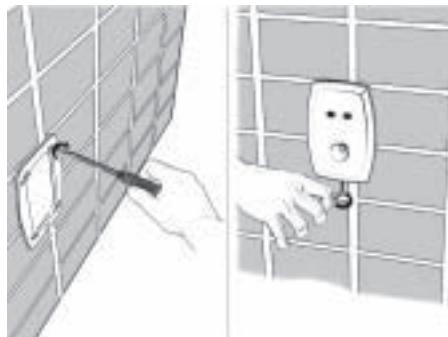
Connect the wire from the electronic unit on the cover plate to the solenoid of the flush valve.



Connect the other wire from the electronic unit to the power supply, either battery or transformer.

Turn on the water supply and make a final check to ensure there is no water leakage.

Assemble the cover plate to the cover seat and secure with the screw located at the bottom of the cover plate.



If your model is the IR231CP, plug the transformer into the electricity supply.

Move away to activate the flush valve. The valve will flush water a few seconds after your departure.

If needed adjust the flow capacity by turning the regulating valve.

If the sensor range is unsatisfactory, refer to the section entitled "Range Adjustment"

Adjusting the sensor range without a remote control (Adjust only if necessary)

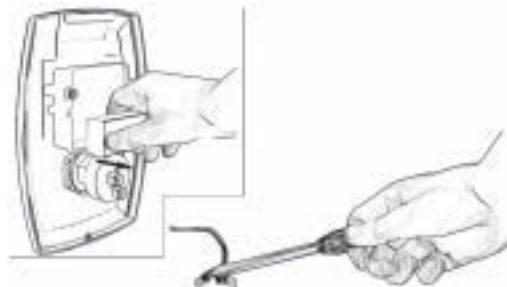
The sensor range is the greatest distance an object can be from the sensor, to activate the flush valve.

The factory setting should be satisfactory for most installations. If the range is too short (i.e. not sensing users) or too long (i.e. sensing the opposite wall), it may be adjusted as follows:

Disconnect the battery or switch off the electricity supply to the sensor.

For the IR230CP make a short circuit between the (+) and the (-) connections of the sensor for 5 seconds. A screw driver can be used or any conductive material to make this short circuit.

For the IR231CP after disconnecting the power supply, activate the sensor three or four times.



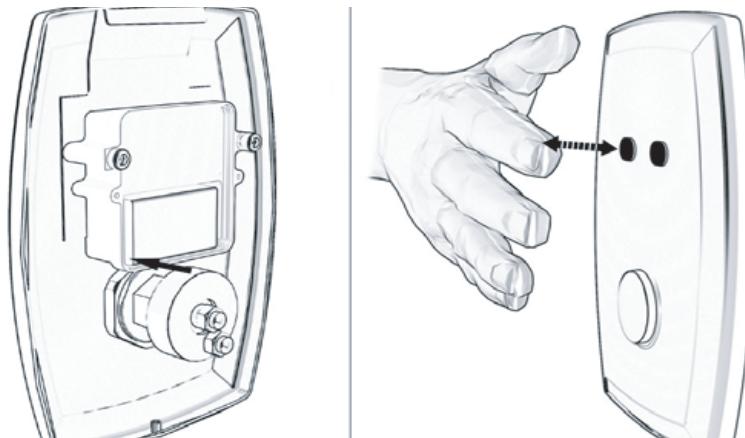
Do not make a short circuit on the power supply or on the sensor when the power supply is connected to the sensor.

Re-connect the power supply to the sensor.

To enter into the adjusting mode, put your hand in front of the sensor at a distance of 5cm (2") to 10cm (4") within 5 seconds of re-connecting the power supply.

Note: If you do not put your hand in front of the sensor after re-connecting the power supply, the sensor will not enter adjusting mode and the previous adjustment will return.

When the sensor enters the adjusting mode, with your hand in front of it, the red light will flash slowly.



Keep your hand in front of the sensor until the slow flashing changes to quick flashing.

Now move your hand away from the sensor to the required distance and wait until the red light stops flashing.

When the red light stops flashing, the sensor has been adjusted to the required distance.

Check the new distance and if still unsatisfactory, repeat the procedure.

Adjusting the sensor with a remote control - optional

Hold the remote control in front of the sensor at a distance of about 10cm (4").

Select the function you want to adjust by pressing the button once.

The red light at the front of the sensor will start flashing quickly.

You can now make the adjustment by pressing the (-) or (+) buttons, every press will increase or decrease one increment of adjustment.

The following can be adjusted using the remote control buttons:

Range - The detection range is the greatest distance a person can be located to activate the sensor and is preset at the factory. Press (+) to increase and (-) to decrease the detection range of the sensor.

Flow Time - Determines the water flushing time once the user leaves the WC; press (+) to increase and (-) to decrease the time.

Delay In - This function prevents an unwanted activation due to a person passing by without using the WC. The sensor will only be activated if the user is detected for the preset amount of time; press (+) to increase and (-) to decrease the time.

Delay Out - This function allows the delay time before the flush, after the user leaves the WC, to be modified; press (+) to increase and (-) to decrease the time.

On/Off - This makes cleaning the WC easier without activating the system. Pressing the button once will prevent the solenoid from opening for one minute. To cancel this function press the on/off button again.

Reset - Restores the factory settings. Press and hold the button whilst pressing the (+) button once.



Battery Replacement (Battery model only)

When the battery starts to runout, the red indicator light will flash at a constant rate.

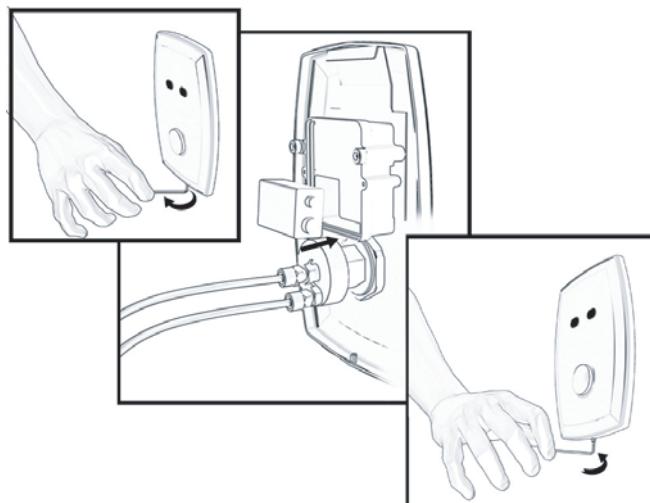
The battery must be replaced within two weeks.

Release the screw at the bottom of the cover plate and remove the cover plate.

Remove the screws and the protective cover of the battery housing from the sensor unit.

Replace the used battery with a new 9V battery, a Lithium battery is recommended.

Refit the protective cover and wall plate.



Maintenance

Care and cleaning of chrome and special finishes

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, or similar chemicals.

The use of any prohibited cleaning or maintenance products could damage the surface of the flush valve.

For surface cleaning, use only **soap** (mild washing-up liquid) and **water**, then wipe dry with a clean cloth or towel.

When cleaning wall tile, the flush valve should be protected against any splashing of harsh cleansers.

Spare Parts List

Component	Part Number
1. Sensor Kit for IR230C	07220028
2. Sensor Kit for IR231C	07220029
3. Panel Kit	07040102
4. Piston Kit	07290001
5. Solenoid Valve Kit	07230005
6. Push Button Kit	07245002

Optional accessories

7. Remote control	IR303
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Trouble Shooting

Problem	Indicator	Cause	Solution
Valve does not flush	Sensor flashes continuously when the user steps within the sensor's range	Low Battery	Replace battery
	Red light in the sensor does not flash when user steps within the sensor's range	Range is too short	Increase range
		Range is too long	Decrease range
		Battery is completely used up	Replace battery
		Sensor is picking up reflections from mirror or other object.	Remove cause of reflection
	Red light in the sensor flashes when the user steps within the sensor's range	Cables between the electronic unit and solenoid are disconnected	Re-connect the electronic unit to the solenoid valve
		Debris or scale in solenoid	Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. Use de-scaler solution if required. When replacing the plunger, ensure the spring is vertical.
		The water pressure is higher than 8 bar	Reduce the supply water pressure
Valve does not shut off	Sensor flashes when the user steps within the sensor's range	Debris or scale in piston	Clean the piston and orifice
	Red light in the sensor does not flash when the user steps within the sensor's range	Sensor is dirty or covered #	Clean or remove cause of interference
		Sensor is picking up reflections from mirror or another object	Decrease the range or remove the cause of the reflection

Water flow will stop after 90 seconds because of security time.

Limited Warranty

This product is covered by a limited warranty for one year from date of purchase.

During this period, Intatec Ltd undertakes, at its option, to repair or replace any faults caused by defective materials or manufacturer that may arise.

The guarantee does not cover faults or damage caused by incorrect installation and/or maintenance, wear and tear, battery and water deposits or leakage. This includes, but is not limited to the following:

Incorrect installation, inversions of supply pipes.

Pressures or temperatures exceeding the recommended limits.

Improper manipulation, tampering, bad or lapsed maintenance.

Foreign bodies, dirt or scale introduced by the water supply.

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