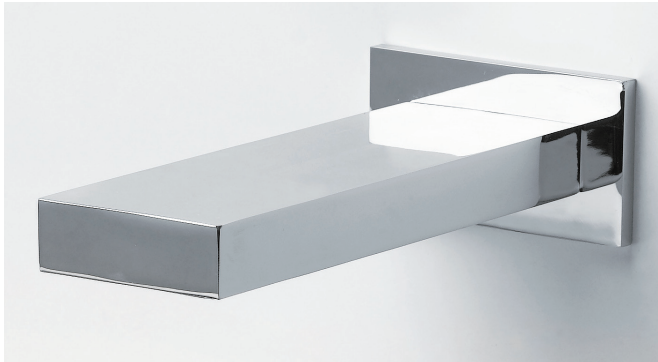


SUPRATECH

HYGIENE ON THE MOVE!



CUBICA

**PANEL-MOUNTED ELECTRONIC
FAUCET FOR COLD OR PREMIXED
WATER**

INSTALLATION AND MAINTENANCE GUIDE

CUBICA electronic faucet

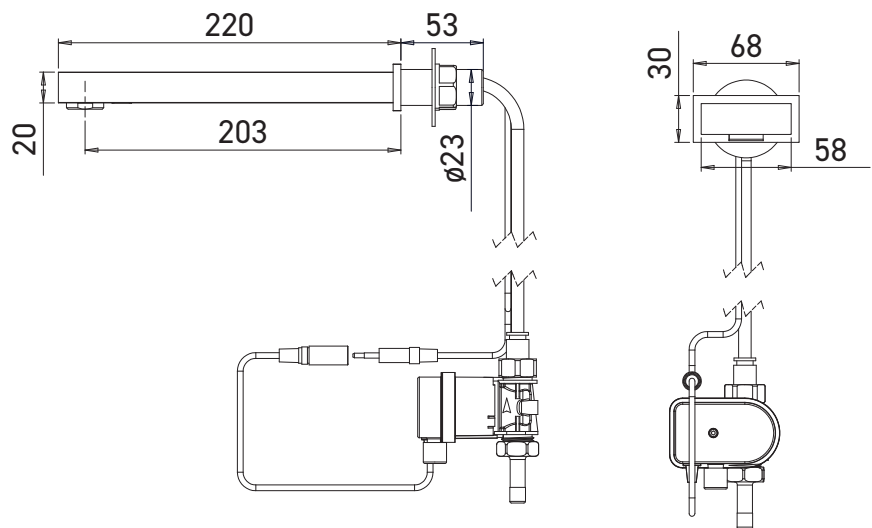
Ref. RES-80 / RES-81

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TECHNICAL CHARACTERISTICS



CUBICA ref. RES-80
Battery powered

Power supply	RES-80: 9V battery RES-81: dual power input box, 230/9V transformer
Water pressure	0.5-8 bars. If the water pressure exceeds 8 bars, use a pressure reducing valve
Preset sensor range	170 mm, self-adjusting
Minimum sensor range	35 mm
Maximum sensor range	300 mm
Security stop	After 90 seconds without interruption (adjustable via optional remote control)
Water temperature	Max 70°C

PACK CONTENTS

1 X FAUCET AND FIXING
ACCESSORIES

1 X ESCUTCHEON

1 X HOSE

1 X SOLENOID VALVE WITH CONNECTOR
AND FILTER (DUAL POWER SUPPLY
WITH BATTERY BOX)

PRE-INSTALLATION

CHECK CONTENTS

Separate all parts from the packaging and check each item using the PACK CONTENTS section. Make sure all parts are accounted for before discarding any packaging material.

If any parts are missing, do not attempt to install your electronic faucet until you have obtained the missing parts.

PREPPING FOR INSTALLATION

Flush water supply lines thoroughly before installing the faucet.

Do not allow dirt, Teflon tape, or metal particles to enter the faucet.

WARNING

To prevent reflection problems, it is recommended to keep a minimum distance of 300 mm between the bottom of the washbasin and the faucet.

IMPORTANT

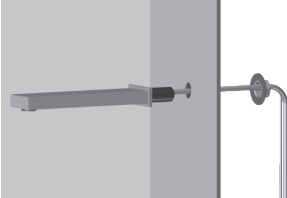
This faucet model with infrared sensor pointing down, is not intended to be used with a washbasin of reflective material such as bright stainless steel.

If the drain is straight below the faucet sensor, use a drain with a non-reflective finish (do not use a chrome plated one).

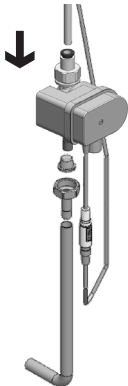
All plumbing is to be installed in accordance with local applicable codes and regulations.

INSTALLATION

STEP 1 – FAUCET INSTALLATION

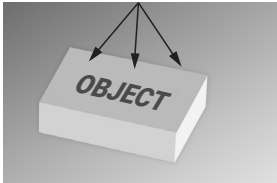
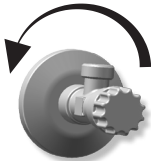
1	Shut off water supply.	
2	Drill a hole at the desired faucet location (Ø24–27 mm).	
3	Insert the faucet base and flexible hose into the hole in the wall, and secure firmly on the other side using the disk and hexagonal nut.	

STEP 2 – CONNECTING THE WATER SUPPLY

1	Connect the black flexible hose to the quick connect fitting on its top. Insert 9V battery into the battery compartment in the solenoid housing (optional backup battery for transformer-powered version in case of power outage).	
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INSTALLATION

STEP 3 – CONNECTING THE POWER SUPPLY

1	Before proceeding, check that no objects are in front of the sensor. Remove the protective sticker covering the sensor.	 A 3D perspective illustration of a white rectangular block labeled 'OBJECT' in black capital letters. Three black arrows point downwards from above towards the top surface of the block, representing a sensor's field of view.
2	Connect the cable coming from the electronic unit to the solenoid valve. Plug the transformer into the electrical socket for transformer powered version.	
3	After connecting the power source (battery or transformer), wait 15 seconds to allow the system to set the ideal sensor range. The solenoid valve will open and close for 1 second to indicate that the ideal sensor range has been set and the product is ready for use.	 An icon of an hourglass with blue sand. To its right, the text 'ABOUT 15 SECONDS' is displayed in a large, bold, sans-serif font, with '15' being significantly larger than the other words. ABOUT 15 SECONDS
4	Turn on the main water supply line. Check for leaks.	 A top-down view of a circular valve handle, likely for a water supply. It has a gear-like edge and a curved black arrow above it indicating a clockwise turning motion.
NOTE: If the sensor range setting is not suitable, refer to the following "SETTING ADJUSTMENTS" section.		

SETTING ADJUSTMENTS



SETTING ADJUSTMENTS WITH THE (OPTIONAL) RES-31 REMOTE CONTROL

The ideal detection range will be set automatically.
If necessary, the sensor settings can be adjusted as follows:

Turn the water supply off.

To adjust the sensor using the remote control, hold the remote directly in front of the sensor at about 15-20 cm away.

Select the function you wish to adjust by pressing the corresponding button once.

After pressing the function button once, the blue LED on the sensor will flash quickly.

At this point, you can adjust the setting by pressing the (+) or (-) buttons, each press increasing and decreasing by one level.

When you have finished adjusting, open the shut-off valve.

SETTING ADJUSTMENTS



DETECTION RANGE:

The detection range represents the optimum distance at which a person or hand must be placed to trigger the system.

The detection range on faucets with self-adjusting detection can be changed using this button.

If needed, the detection range can be adjusted as follows:

Press the **RANGE** button. Wait for the blue LED to flash on the sensor. Then press **(+)** to increase the range and **(-)** to decrease it.

NOTE: Even in the event of a power cut, once the detection range has been set using the remote control, it is memorised.



FLOW TIME OUT:

The flow time out function allows the user to change the flow time after the user has moved their hands away from the faucet.

A flow time close to 0 will save more water whereas an increased time will make the experience more comfortable for the user.

If needed, the delay time can be adjusted as follows:

Press the **OUT** button. Wait for the blue LED to flash on the sensor. Then, press **(+)** to extend the flow time out or **(-)** to shorten it.



TEMPORARY OFF FUNCTION:

The temporary off function is ideal for performing any activity in front of the sensor without operating the system (e.g., cleaning).

Faucets remain closed for 1 minute when this button is pressed once.

To deactivate this function and return to normal operations, press the **ON/OFF** button again or wait for 1 minute.



SELF ADJUSTMENT MODE:

To activate, first ensure that no objects are in front of the sensor.

Press the **ADJ** button and wait for a quick flashing of the sensor's LED.

Remove the hand holding the remote control and move away from the detection range.

The ideal detection range will be set automatically.

Opening of the solenoid valve for 1 second to indicate that the adjustment is complete and the valve is ready for use.

SETTING ADJUSTMENTS

SEC

SECURITY STOP:

The security stop function prevents continuous running from the faucet, in the event of reflection or vandalism.

By default, if the sensor is covered for more than 90 seconds, the water flow will automatically stop.

To resume normal operation, all obstructions must be removed.

If needed, the security stop can be adjusted as follows:

Press the **SEC** button. Wait for the blue LED to flash on the sensor.

Then press **(+)** to increase the security stop time or **(-)** to decrease it

RES

RESET:

The reset function allows the sensor to return to the original factory settings. If your faucet has self-adjusting detection, the **RESET** button restores all factory settings except for the detection length.

Use the **ADJ** button to activate the self-adjustment mode.

If needed, the detection length can be adjusted as follows:

Press the **RANGE** button. Press and hold down the **RESET** button and, at the same time, press the **(+)** button once.



COMFORT FLUSH:

If your mode includes the comfort flush feature, it can be activated by pressing the flush button. Once the button has been pressed, the sensor's LED will flash once and the pre-programmed flush cycle (2 minutes) will begin.

The comfort flush feature cannot be interrupted or deactivated before completion.



24 HOUR HYGIENE FLUSH:

The 24 hour hygiene flush function is ideal for optimising hygiene and preventing legionella (option to specify when ordering).

In addition, it helps to prevent the risk of frost in the pipes by ensuring water circulation.

If needed, the hygiene flush can be adjusted as follows:

Press the clock button. Wait for the blue LED to flash on the sensor.

Then press **(+)** to activate or **(-)** to deactivate it.

FILTER CLEANING INSTRUCTIONS:

This faucet is provided with a stainless steel filter preventing foreign particles to enter the lines. It is recommended to clean the filters every six (6) months. If the water flow has decreased, this may be because the filter is clogged. The filter can be cleaned as follows:

1. Close the shut-off valves.
2. Disconnect the water supply inlet from the solenoid box and remove the filter.
3. Wash the filter under running water.
4. Reassemble the parts.
5. Restore the incoming water supply.
6. Make sure that there is no water leakage.

CARE AND CLEANING OF CHROME AND SPECIAL FINISHES:

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. The use of any prohibited cleaning or maintenance products or substances could damage the surface of the faucet.

For surface cleaning use ONLY soap and water, then wipe dry with a clean cloth or towel. When cleaning bathroom tiles, the faucet should be protected from any splattering of harsh cleansers.

For disinfection, chlorine can be used (maximum concentration of 50 mg/L in the water for 1 hour) at service intervals.

SOLENOID VALVE CLEANING

1. Shut off water supply. Unplug power supply.
2. Disconnect the power supply terminal from the solenoid valve.
3. Unscrew the solenoid valve using 25 mm spanner.
4. Remove membrane and clean thoroughly with water (small central hole).
5. Check the black plunger at the center of the solenoid valve, ensuring the spring is properly positioned vertically underneath.
6. Reassemble.



The solenoid valve membrane requires periodical cleaning every six (6) months. Remove the membrane from the solenoid valve and examine it for dirt. Do not attempt to dismantle the solenoid valve if you are unfamiliar with electronic solenoid valves.

BATTERY REPLACEMENT

BATTERY POWERED VERSION ONLY:

When the battery weakens, the blue indicator light will flash at a constant rate when user's hands are within the sensor range.

The battery must be replaced within two weeks.

Always use high-quality batteries to avoid malfunction.

1. Carefully open the dual power box by unscrewing the Allen screw.
2. Remove old battery.
3. Replace the used battery with a new 9V battery
(Lithium battery recommended).
4. Close the box using the Allen screw.



ABOUT
15
SECONDS

After changing the battery, move away from the detection area and wait 15 seconds for the ideal detection settings to be adjusted.

Once set, the water will run for 1 second to indicate that it is ready for use.

WARNING: Used batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.



SPARE PARTS LIST

Seals and screws kit	S07210062
Sensor kit	S07220066
Solenoid valve kit	S07230017
Transformer	S06522042
IP67 battery box	S06530092
Diaphragm	S04500001
Add-ons:	
Remote control	RES-31
IP68 transformer to supply up to 4 faucets	RES-294M
Junction box to supply up to 10 faucets	RES-295

TROUBLESHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
No running water	1. The sensor's LED flashes continuously when the user's hands are within detection range	Low battery.	Replace battery.
		1. The range is too short.	Increase range.
		2. The range is too long.	Decrease range.
		3. Battery is used up.	Battery need replacing.
		4. The unit is in "Security Mode".*	Eliminate cause of reflection.
	2. The sensor's LED does not turn on when the user's hands are within detection range	5. Sensor is picking up reflections from the washbasin.	
		1. Faulty connection/ wiring between detection and solenoid valve.	Re-connect electronic unit and solenoid valve properly.
		2. Dirt or scale in the solenoid.	Unscrew the solenoid, remove the diaphragm, plunger, and spring, and clean them, using an antiscalant if necessary. When replacing the plunger, ensure that the spring is in the vertical position.
		3. The central opening of the diaphragm is blocked or torn.	Clean the opening or replace the diaphragm.
		4. The water supply pressure of the faucet is greater than 8 bars.	Decrease water supply pressure.
Water runs continuously	1. The sensors LED flashes once when the user's hands are within detection range	Dirt or scale in the diaphragm.	Clean the opening or replace the diaphragm.
	2. The sensor's LED does not flash when user's hands are within range	1. The sensor is dirty.	Clean or remove obstructions.
		2. The sensor is picking up reflection from the washbasin.	Decrease detection range or eliminate reflection source.
Weaker water flow		Filter or aerator is clogged.	Remove, clean, re-install.

* Security Mode: if the sensor is covered for more than 90 seconds, the faucet will automatically stop the water flow as a security measure. To resume normal operation, remove any obstructions.

LIMITED WARRANTY

This faucet is warranted for 3 years from the date of purchase.

In the event of a defect during this period of regular use, SUPRATECH will, at its discretion, repair, provide a replacement part or product, or make appropriate adjustments.

SUPRATECH will not be responsible for labour, installation or other additional costs or indirect costs other than those specified above. In no event shall SUPRATECH's liability exceed the purchase price of the product.

This warranty does not cover breakdowns due to incorrect installation and maintenance, normal wear and tear, battery, or water composition.

This warranty does not cover product damage caused by the following:

- Incorrect installation, inversion of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply.
- Vandalism.

Failure to comply with the safety precautions and/or installation recommendations described in this installation guide will void the warranty. For all warranty claims, contact your Plumbing contractor, Dealer or SUPRATECH.

Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the reference and model number, proof of purchase, and the installation date.

SUPRATECH

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