# SUPRATECH

*HYGIENE ON THE MOVE!*

# AKWALINE
## PANEL MOUNTED ELECTRONIC FAUCET
## FOR COLD OR PREMIXED WATER

INSTALLATION  AND  MAINTENANCE  GUIDE

# I N D E X

M23x1

220

70

183

⌀28

AKWALINE WS Ref. RES-141
**9V transformer**

| | |
|---|---|
| **Power Supply** | RES-140: 6x1,5V batteries<br>RES-141: 9V transformer |
| **Water pressure** | 0.5 - 8.0 bars. If the water pressure exceeds 8 bars, use a pressure reducing valve |
| **Sensor range** | 35 - 300 mm self-adjusting<br>(ajustable with optional remote control) |
| **Flow time** | 90 seconds (adjustable with remote control) |
| **Hot water temperature** | Max 70°C |

# PACK CONTENTS

1 X AKWALINE
BASE

1 X ESCUTCHEON

1 X M4X4
SCREW

1 X SPOUT AND ATTACHEMENTS
(INCL. ELECTRONIC UNIT)

1 X SOLENOID VALVE BOX
WITH INLET NIPPLE AND
FILTER

RES-140 :

1X IP67 BATTERY
BOX

RES-141 :

1X TRANSFORMER
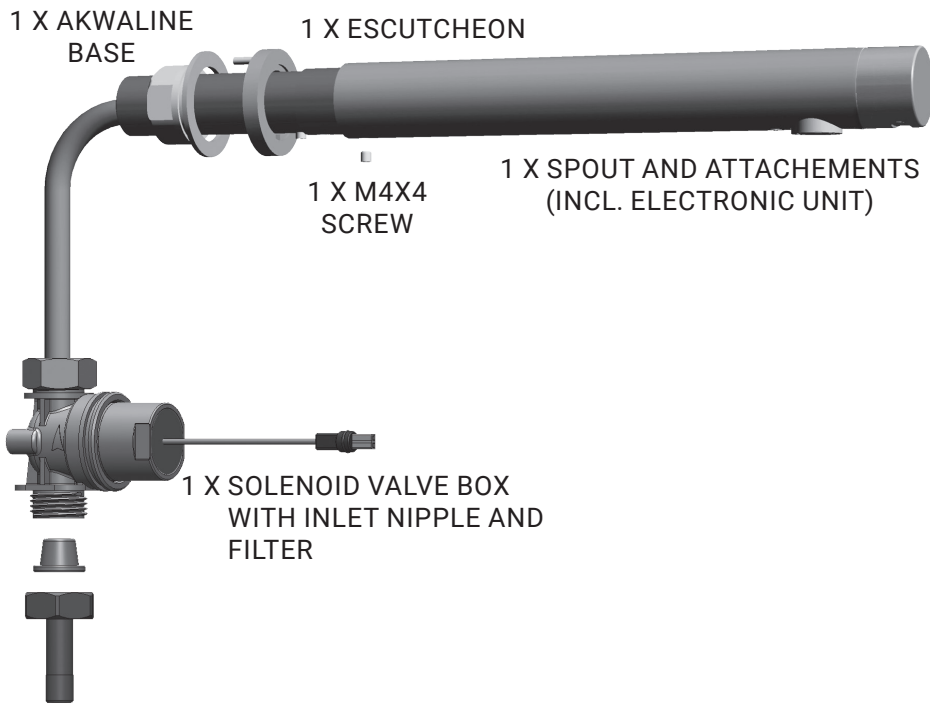
# PRE-INSTALLATION

## 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.

Ensure you have all parts before attempting to install your electronic mixer.

## 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.

## WARNINGS

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).
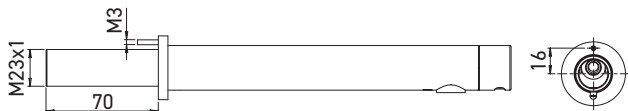


Min. 300 mm

Bottom of washbasin
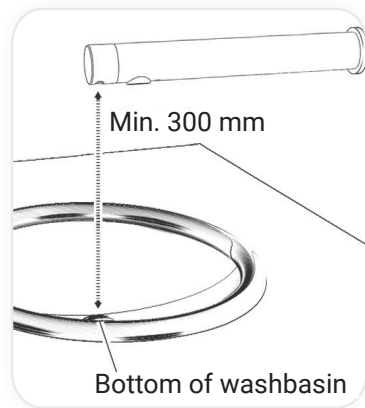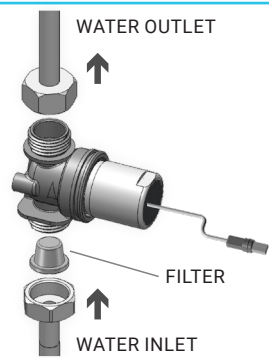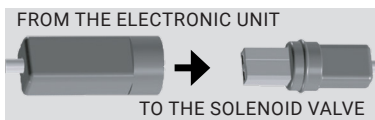
**All plumbing is to be installed in accordance with local applicable codes and regulations.**

# INSTALLATION

## STEP 1 – INSTALLING THE FAUCET
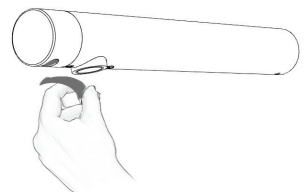
| | | |
|---|---|---|
| **1** | Shut off the water supply. |  |
| **2** | Cut a suitable opening in the wall (26-27 mm) where you want to install the spout of the faucet. If the faucet includes an anti-rotation pin, drill a 4 mm small hole, 1.5 mm above the other one. | 26-27 |
| **3** | Insert the base through the hole and secure it firmly on the opposite side with the disk and hexagonal nut. | |

M3
M23x1
70
16

## STEP 2 – CONNECTING THE WATER SUPPLY
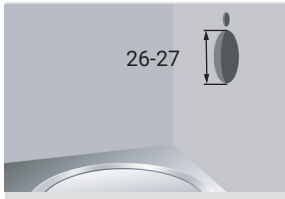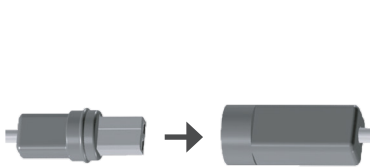
| | | |
|---|---|---|
| **1** | Connect the flexible pipe coming from the RONDEO faucet base to the solenoid valve housing. Make sure the filter is located between the solenoid housing and the water inlet. | WATER OUTLET FILTER WATER INLET |
| **2** | Connect the cable coming from the electronic unit to the solenoid valve. | FROM THE ELECTRONIC UNIT TO THE SOLENOID VALVE |

**IMPORTANT:** This product includes a self-adjusting sensor. The ideal sensor range or the specific location will be set automatically.

| | | |
|---|---|---|
| **3** | Before proceeding, check that no objects are in front of the sensor besides the washbasin. |  |
| **4** | Remove the protective sticker covering the sensor and exit detection range. |  |

## STEP 3 – CONNECTING THE POWER SOURCE

| | | |
|---|---|---|
| **1** | Battery version: connect the other cable from the electronic unit at the AKWALINE base to the battery box.<br>Transformer version: connect the other cable coming from the electronic unit to the transformer.<br>Plug the transformer into the electrical socket. |  |
| **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. |  **15** SECONDS |
| **3** | Turn on the main water supply line. Check for leaks. |  |

DETECTION RANGE

FLOW TIME OUT

SELF ADJUSTMENT MODE

TEMPORARY OFF FUNCTION

SECURITY STOP

RESET

COMFORT FLUSH

24 HOUR HYGIENE FLUSH

## 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 valves.

# 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 equipped with a stainless steel filter that prevents foreign particles from entering the solenoid valve.
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 valve.
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.

**SOLENOID VALVE SERVICING:**

The solenoid valve diaphragm requires periodical cleaning every six (6) months.
Remove the diaphragm 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.

**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.

If system chemical disinfection is practiced, chlorine can be used (calculated chlorine concentration of 50mg/l maximum in water per one hour dwell time) at service interval frequency.

# BATTERY REPLACEMENT

**BATTERY POWERED VERSION ONLY:**

When the battery weakens, the sensor's blue indicator light will flash at a constant rate when user's hands are within the sensor range.
The batteries must be replaced within two weeks.
Do not mix used batteries with new ones.

1. Carefully open the battery box by unscrewing the holding screw.

2. Open the box and remove old batteries.

3.Replace the used batteries with 6 new 1.5V batteries
  (Lithium batteries recommended)

4. Close the box using the screw.
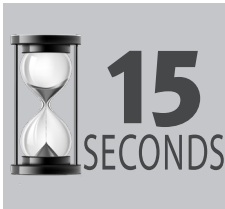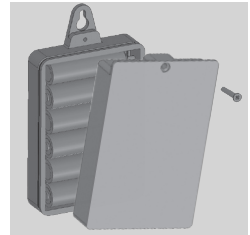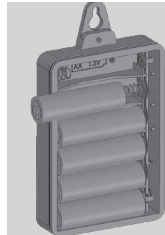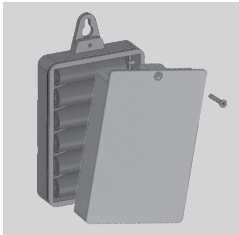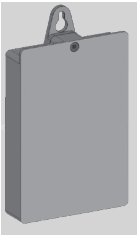


After changing the battery, move away from the detection area and wait 15 seconds for the ideal detection settings to be adjusted.
Once set, the water will run for 1 second to indicate that it is ready for use..

**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

| | |
|---|---|
| Screws kit | S07210102 |
| Sensor kit | S08004001 |
| Solenoid housing kit | S07231008 |
| Solenoid valve kit | S07231014 |
| Diaphragm | S04500001 |
| 9V transformer | S06522042 |
| *Add-ons:* | |
| Remote control | RES-31 |

# 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.

# TROUBLESHOOTING

| PROBLEM | INDICATOR | CAUSE | SOLUTION |
|---------|-----------|-------|----------|
| No running water | 1. The sensor's LED does not turn on when the user's hands are within detection range | 1. The range is too short. | Increase range. |
| | | 2. The range is too long. | Decrease range. |
| | | 3. Battery is used up. | Replace battery. |
| | | 4. The unit is in "Security Mode".* | Eliminate cause of reflection. |
| | | 5. Sensor is picking up reflections from the washbasin or from another object. | |
| | 2. The sensor's LED flashes once when the user's hands are within detection range | 1. Faulty connection/ wiring between sensor and solenoid valve. | Re-connect sensor and solenoid valve properly. |
| | | 2. The water supply pressure of the faucet is greater than 8 bars. | Decrease water supply pressure or use pressure reducing valve. |
| | | 3. The water supply pressure is under 8 bars yet the pressure in the faucet's body is higher. This situation maybe be due to a sudden increase in the water supply pressure that the back check prevents from dropping. | Shut off water supply and unscrew the flexible hose in order to reduce the pressure blocking the tap. |
| Water does not stop running | 1. The sensor's LED flashes once when the user's hands are within detection range | 1. Dirt or scale in the diaphragm. | Clean the opening or replace the diaphragm. |
| | 2. The sensor's LED does not flash when the user's hands are within range | 1. The sensor is dirty or obstructed. ** | Clean or remove obstructions. |
| | | 2. The sensor is picking up reflections from the washbasin or fom another object. | Decrease detection range or eliminate reflection source. |
| Weaker water flow | | Filter or aerator is clogged. | Remove, clean, or 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.
\*\* In this case, the water flow will automatically stop after 90 seconds due to "Security Mode".

# SUPRATECH

**AUTOMATED SYSTEMS - SANITARY ACCESSORIES - STAINLESS STEEL SANITARY WARE**

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08.2024