

Aquagate

User Guide

Two water valves and a 40 A power switch you can flip from your phone, from anywhere with cell signal.



Welcome to Aquagate

Aquagate is a small box that controls two water valves and one mains switch for you. You stick it on a wall, hook up the wires, scan the QR code with your phone, and you can now open and close those valves, or turn that switch on and off, from anywhere. As long as your phone has internet and Aquagate has cell signal, you are in business.

The switch inside is rated for **40 amps at 240 volts**. That is about 9 kilowatts, which is enough to feed a whole small household, or a single big load like a borehole pump or a water heater. The valves are the everyday 12 V motorised ball-valve type.

That is the whole story. Set it up once, then forget about it.

What you should find in the box

- One Aquagate unit. Depending on your model, the antenna is either already screwed onto the side or built into the case.
- Two pre-wired valve pigtails (red, yellow, blue), one per valve.
- This little guide.

If anything looks cracked, bent, or chewed by a goat in transit, stop right there and contact us before you plug anything in.

What you will need to provide

- A 240 V mains supply within reach of where you mount it.
- Up to two 12 V motorised ball valves (the pigtails plug into them). One valve, two valves, or zero, all fine.
- Whatever load you want the switch to control. A pump, a heater, a whole household sub-circuit, anything up to 40 A at 240 V.
- A phone with the SquaredIoT app installed (next page).
- About fifteen minutes.

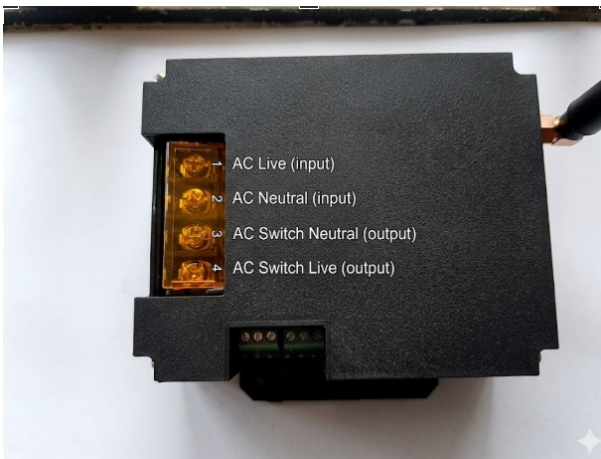
Set it up

1 Mount it on a wall.

Pick a dry indoor spot, or a weatherproof outdoor box. Screw it down using the four corner holes. If your unit has an external antenna, keep it pointing up and away from big metal surfaces. (If your unit has the antenna built in, you can skip that part.) That is it for mounting.

2 Wire it up.

Two sets of terminals. The orange ones at the top take your mains power in and your switched load out. The two green ones on the side take the valve pigtails, one block per valve. Wire colours and positions are on the next page. *Do this with the power off at the breaker. Always.*



AC terminals (top, orange).



Valve terminals (green, on the side).

3 Get the app, then scan the QR.

Two ways to do this, pick whichever suits you. On Android, install the *SquaredIoT* app from the Play Store. Or on any phone or computer, Android or iPhone alike, just open iot.squared.co.ke in your browser. Either way: make an account, tap *Add Device*, and point the camera at the QR code on the back of the Aquagate. That links the device to you.

The first scan wins. Once you scan, Aquagate is yours, and any later scan by anyone else will bounce. So scan it from the account you want to own it long-term. If you sell it on, release it from your account first so the next owner can claim it.

4 Switch the breaker on.

Aquagate boots up, finds the cell network, and within about a minute it will appear as **Online** in your app. You are done.

Wiring at a glance

Two tables. Match the wire to the position, tighten the screw, give it a gentle tug to be sure. Done.

Mains and AC switch (orange terminals, top of unit)

#	Terminal	Connect to
1	AC Live (in)	Live wire from your wall socket / breaker.
2	AC Neutral (in)	Neutral wire from the same source.
3	AC Switch Neutral (out)	Neutral of whatever you want to switch.
4	AC Switch Live (out)	Live of whatever you want to switch.

Valves (green terminals, side of unit)

Each valve pigtail has three wires. Match them to the three positions in its green block, left to right:

Valve	Position 1	Position 2	Position 3
Valve 1 (left block)	Red	Yellow	Blue
Valve 2 (right block)	Red	Yellow	Blue

If you swap red and blue by mistake, the valve will close when you mean to open. No damage done; just swap them back.

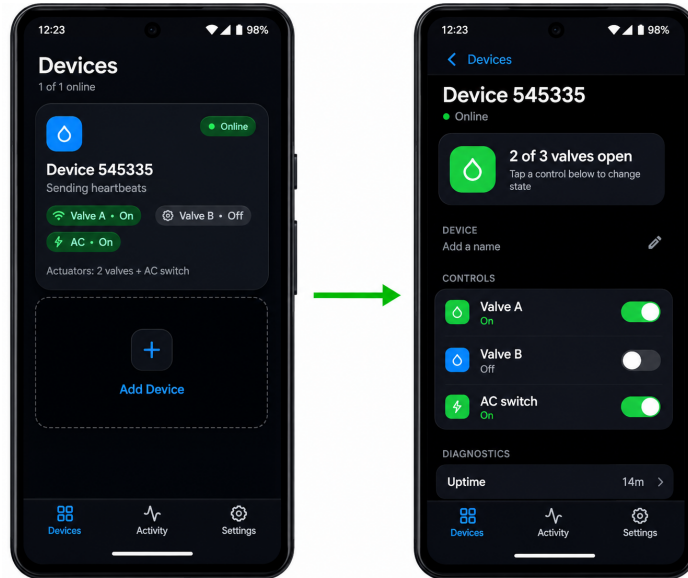
Only need one valve right now? Wire it into either block and leave the other empty. Need more valves later? Aquagate can drive up to four under the hood, but this version brings out only two to terminals. Talk to us at squared.co.ke.

A WORD ON SAFETY

That mains input is 240 volts. If you are not comfortable working with mains wiring, get an electrician to do this step. It takes them ten minutes. Always switch off at the breaker first, and check with a tester before you touch a terminal. Do not open the sealed enclosure: there is nothing inside that you need.

Using it from your phone

Open the SquaredIoT app (or iot.squared.co.ke in a browser), tap your Aquagate, and you will see three toggles: *Valve A*, *Valve B*, *AC switch*. Tap to flip. What you see on screen is the real state of the device. Changes show up in under a second on a normal signal. If you have wired only one valve, the other toggle will simply sit there waiting for the day you add it.



If something is not quite right

App says Aquagate is offline. Wait two minutes after first power-up. If your unit has an external antenna, check it is screwed on snug. Make sure the unit is not buried in a metal box. Otherwise: breaker off, count to ten, breaker on.

Toggles do nothing. Force-close the app and reopen. If still stuck, power-cycle at the breaker.

Valve turns the wrong way. Power off, swap the red and blue wires on that valve, power back on.

Anything else. Email us at the address below. Include your device number (on the device screen in the app, e.g. *Device 545335*).

Help, warranty, the small print

Support squaredke@gmail.com
Web squared.co.ke
Control iot.squared.co.ke (any browser, Android or iPhone)
Android app *SquaredIoT* on the Play Store

Warranty. Twelve months from purchase against manufacturing defects. Opening the sealed enclosure, exceeding the rated load, or installing it underwater voids the warranty. Full terms came with your invoice.

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