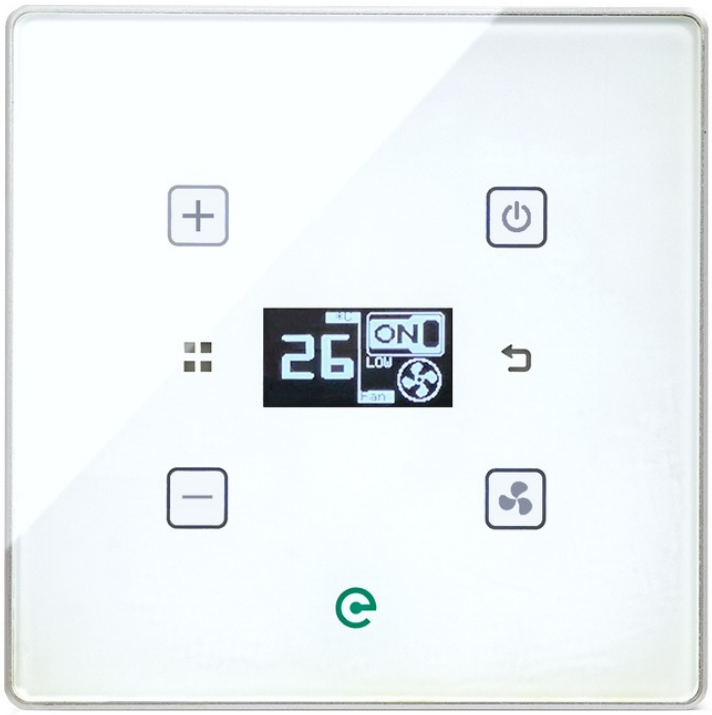
RAPTORTRON · USER MANUAL · SMART SWITCH

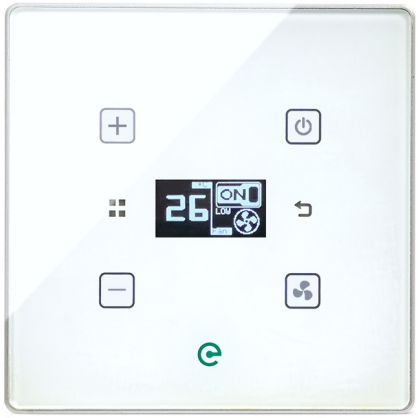
AC-DKI SQ

Installation, pairing and safety instructions for the AC-DKI SQ wired smart controller for Daikin VRV air conditioners.



User manual · English edition

01 Product overview



AC-DKI SQ smart controller for Daikin air conditioners.

Wired central controller for Daikin air conditioners that replaces, or runs in parallel with, the original wall-mounted controller.

ITEM	DETAIL
Model	AC-DKI SQ
Category	Smart switch

02 Features

1. A smart VRV air-conditioner controller that can work as a direct replacement in Master mode, or as a parallel connection node in Slave mode, on the P1/P2 bus of the Daikin VRV system.
2. Direct two-way data feedback and full control of Daikin VRV indoor units.
3. Built-in Raptortron Mesh network for connection and central management within the smart home ecosystem.
4. Air-conditioner settings and remote control through the Raptortron app when connected to the Raptortron central controller.
5. Advanced operating schedules and automation conditions can be set.
6. Equipped with 4 physical touch buttons with haptic feedback: Temperature up/down, ON/OFF, Fan speed; plus 2 customisable function keys for advanced settings.

03 Technical specifications

01 Design & dimensions

SPECIFICATION	VALUE
Glass colour	Black / White
Aluminium bezel colour	Silver / Gold
Dimensions	86mm x 86mm x 30mm
Compatible flush box	75mm x 75mm

02 Control interface

SPECIFICATION	VALUE
Installation mode / Device role	Replaces the standard Daikin wall-mounted controller in Master mode, or is installed in parallel in Slave mode
Control interface	6 capacitive touch keys
Display	0.96 inch monochrome OLED display

03 Control type

SPECIFICATION	VALUE
Control protocol	Communicates directly with the Daikin VRV system over the P1/P2 bus

04 Power & load

SPECIFICATION	VALUE
Input voltage	80 VAC ~ 240VAC / 50~60Hz
Standby power consumption	< 1W
Protective fuse	5A

05 Wireless connectivity

SPECIFICATION	VALUE
Wireless communication	Raptortron Mesh
Wireless range	100m open air / 30m indoor

06 Indicators & alerts

SPECIFICATION	VALUE
Status LED	Blue
Night locator light	Yes
Audible alert	Buzzer

04 Installation guide

In the box

- Smart switch body
- Touch glass panel with bezel
- 2 wall screws
- Quick guide & warranty card

Installation steps

1. **Switch off the power.** Turn off the main circuit breaker for the area where the switch is installed. Use a voltage tester to confirm that there is no power at the switch location.
2. **Connect the wires.** Connect the L (Live) and N (Neutral) wires to the matching terminals on the switch body. For a switch that controls loads: connect the load wire (L-out) to the device. For a curtain switch: connect the 2 dry contacts (NO) to the Open/Close motor.
3. **Mount in the flush box.** Place the switch body in the 75×75mm flush box and tighten the 2 screws evenly; make sure the face sits flat against the wall.
4. **Fit the glass panel.** Align the touch glass panel with the body and press all 4 corners evenly until it clicks into place; fit the decorative bezel on the outside.
5. **Restore power.** Switch the circuit breaker back on. The indicator LED lights up and the device enters standby, waiting to be connected.

05 Connection guide

Preparation

- Raptortron smart switch
- 1 central hub with an Internet connection
- Raptortron app already connected to the central controller (make sure the phone and the central controller are on the same Internet network)

Download the Raptortron app for Android or iOS.

In the Raptortron app: auto learn

1. **Tap.** Open the Raptortron app, tap the "Menu" icon at the top of the screen, then select "Devices".
2. **Tap.** Tap the "Auto learn" icon.
3. **Tap.** When the "Auto learn" dialog appears, tick the "I have understood and agree" box, then tap **"OK"** to confirm.
4. The system starts a 60-second countdown to scan automatically and complete the device connection.

In the Raptortron app: manual learn

1. Open the "Menu" in the app, then go to "Devices".
2. **Press and hold.** Press and hold the icon of the device that you want to re-learn or replace.
3. In the list of options that appears, select "Manual learn".
4. **Tap.** When the "Manual learn" dialog appears, tap the "Learn" button. The dialog shows the Device code and the Serial number of the device.
5. The app counts down 60 seconds to finish synchronising and remembering the new device.

Teaching the device ID to the central controller

Do this on the device while the app is counting down.

1. **Press and hold.** Press and hold **key "5"** to enter the MENU. Select "Add device".
2. **Press.** Press **key 1** to teach the ID. Make sure the MCE is in ID-teaching mode.

Result

- **If the ID is taught successfully:** the device exits automatically.
- **If teaching the ID fails:** the green backlight keeps blinking. Press key 1 again to try again, or press and hold key 6 to exit.

Important

- Auto learn fails if the number of devices exceeds the capacity limit of the central controller.
- In that case, see the Technical specifications of the central controller for the number of devices allowed, or switch to the manual learn method.

06 Safety notes

! Use only a power supply that matches the technical specifications in this document. Using the wrong power supply can damage the device and be dangerous.

! Do not open or repair the device while it is powered. All electrical wiring must be done by a qualified electrician.

! Keep the device in a dry place, away from direct water splashes (except models explicitly rated as water-resistant, IP xx).

! The product is covered by the official Raptortron warranty policy. Please keep your purchase invoice for the best support.

English edition translated in full from the manufacturer's original manual. Specifications are subject to change; current data: https://raptortron.com/product-ac-dki.html. Online version: https://raptortron.com/manuals/ac-dki/