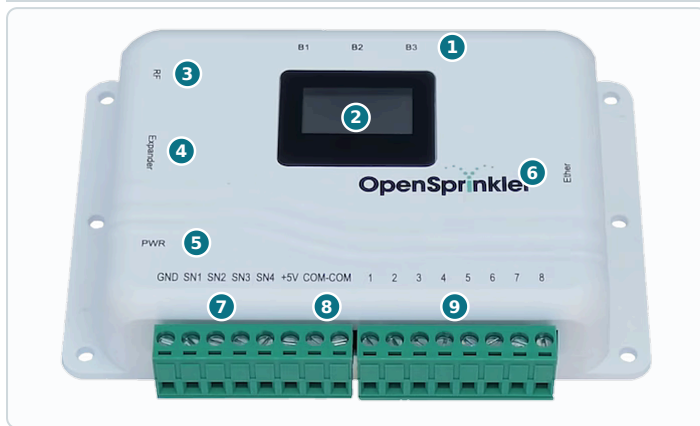


OpenSprinkler 4 - Quick Start

AC model (24 VAC) · ESP32-C6 · Firmware 2.2.1(6)

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Your OpenSprinkler distributor in the EU

Connectors and controls



1	Buttons B1, B2, B3
2	OLED display – time, zone status, IP address
3	RF – header for a 433 MHz RF transmitter
4	Expander – Zone Expander / Sensor Expander
5	PWR – red barrel jack for the 24 VAC transformer
6	Ether – optional wired Ethernet module (W5500)
7	GND, SN1-SN4, +5V – sensors (rain, soil, flow on SN1, program switch; analog 0-3.3 V with the next firmware update)
8	COM, COM – common wire of all valves (2×, equivalent)
9	1-8 – zone outputs for 24 VAC solenoid valves

Package contents

- OpenSprinkler 4 (AC) with removable screw terminal blocks
- Screw-terminal-to-barrel-plug adapter (for transformers with bare wires)
- Option “standard power supply”: 24 VAC / 1.5 A plug-in transformer
- Option “Ethernet network adapter”: W5500 module with ribbon cable

Buttons

Click B1	IP address, port and OTC status
Click B2	MAC address, hardware / firmware version
Click B3	Switch display between main controller and expander zones
Hold B1	Stop all zones immediately
Hold B2	Reboot the controller
Hold B3	Start a program manually
B3 + B2	Reset WiFi (hold B3, press B2)
At power-up	Hold B1 : factory reset · hold B3 : Setup Options (“Ignore Password” if you forgot the password)

Specifications

Processor	ESP32-C6 (RISC-V, 160 MHz), 8 MB flash	Zones	8, expandable to 72
Network	Wi-Fi 6 (2.4 GHz), WPA3; wired optional	Outputs	24 VAC, 1 A per zone (triac)
Power	22-28 V AC; 0.5-0.9 W without valves	Sensors	4 inputs SN1-SN4
Protection	Overcurrent and undercurrent detection	Programs	up to 40
Radio	802.15.4 (Matter/Thread/Zigbee announced)	Size / weight	125 × 79 × 25 mm / 140 g

Four steps to the first watering

- 1 Wiring (power off!)**
Bundle one wire from every solenoid valve into a common wire and connect it to **COM** (not to GND). The second wire of each valve goes to a zone output **1-8**. 24 VAC valves have no polarity. A master valve or pump start relay connects to any zone (the “master” is defined in software). Sensors: signal wire to **SN1-SN4**, second wire to **GND**. Never connect sensors to COM.
- 2 Connect power**
Plug the 24 VAC transformer into the red **PWR** jack. Transformers with bare wires connect via the included adapter. The display starts with the OpenSprinkler logo. The USB-C port is for firmware recovery and diagnostics only. It does not power valves.
- 3 Connect to the network**
WiFi: On first boot the display shows an open WiFi network **OS_XXXXXX**. Connect your phone or PC to it, open **192.168.4.1** in a browser, select your home WiFi (2.4 GHz), enter its password and click **Connect**. The controller reboots and joins your network.
Wired (option): With the controller powered off, plug the Ethernet module into **Ether** (not Expander), connect the network cable, power on. Disable PoE on the switch port.
- 4 Set up**
Button **B1** shows the IP address. Open **http://<IP address>** in a browser or install the free **OpenSprinkler** app (iOS/Android) and add the device with this IP. Default device password: **opendoor** – change it immediately.
Then: set the location (weather adjustment, time zone), name your zones, create the first program. Test with “Run-Once” or by tapping a zone.

Good to know

- **Remote access** without port forwarding: enter an OpenThings Cloud (OTC) token under Options → Integration.
- **Transformer sizing:** about 0.1 A for the controller plus about 0.3 A per valve open at the same time (check the valve datasheet). The standard power supply delivers 1.5 A.
- **More zones:** each Zone Expander adds 16, up to 72. Connect expanders only with the controller powered off.
- **Firmware update** with one click from the sidebar menu (local network only). Export your configuration first.
- **Sensor needs 24 VAC** (e.g. wireless rain sensor)? Take its power from COM and GND.

Safety notes

- Operate only with a 24 VAC safety transformer. Never connect mains voltage (230 V) to the controller.
- The controller is not waterproof. Outdoors, mount it only inside a weatherproof enclosure (IP65).
- Connect or change wiring, expanders and the Ethernet module only with the power off.
- Maximum 1 A per zone output. Do not wire several valves to one output.

Manual and help



Manuals (EN/DE/FR)
opensprinklershop.de/downloads
Support and FAQ
opensprinklershop.de/support