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Shelly Wall Display



Device identification

Device name: **Shelly Wall Display**
Device model: **SAWD1**

Short description

Shelly Wall Display (the Device) is a smart home control panel with a 4" color display and load circuit switching functionality.

Main features

- Touch-sensitive 4" color display
- Easy navigation and customizable home screen
- Integrated relay for appliance control
- Integrated temperature, humidity, and light sensors
- Power consumption monitoring of all devices in a room in your Shelly Smart Control account

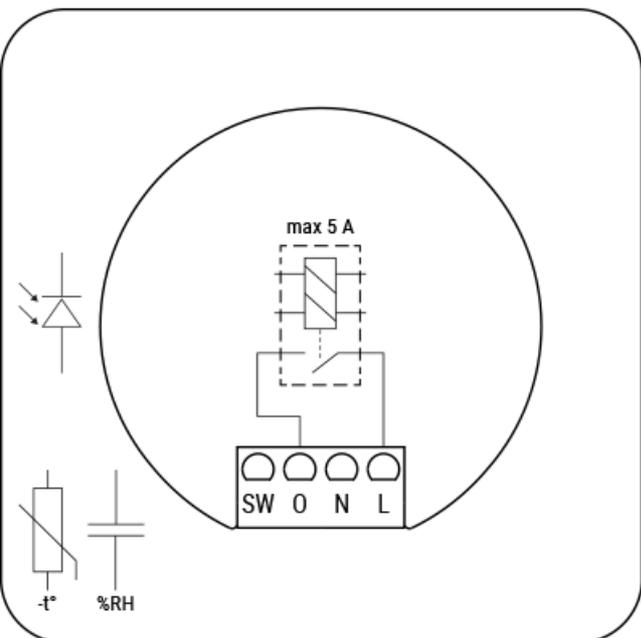
Main applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)
- Government/municipal
- University/college

Integrations

N/A

Simplified internal schematics



Device electrical interfaces

Inputs

- 1 switch/button input on screw terminal
- 2 power supply inputs on screw terminals: N and L

Outputs

- 1 relay output with power measurement on screw terminal

Connectivity

- Wi-Fi
- Bluetooth

Safety functions

N/A

Supported load types

- Resistive (incandescent bulbs, heating appliances)
- Capacitive (capacitor banks, electronic equipment, motor starting capacitors)
- Inductive with RC Snubber (LED light drivers, transformers, fans, refrigerators, air-conditioners, washing machines, tumble dryers)

User interface

Touch-sensitive 4" color display with fully-customizable layout and following indications:

Specifications

Quantity	Value
Physical	
Size (HxWxD):	85x85x30 mm / 3.35x3.35x1.18 inch
Weight:	180 g / 6.35 oz.

Screw terminals max torque:	0.4 Nm/ 4.43 lbin
Conductor cross section:	0.5 to 2.5 mm ² / 20 to 14 AWG (solid, stranded, and bootlace ferrules)
Conductor stripped length:	6 to 7 mm/ 0.24 to 0.28 in
Mounting:	Wall box
Shell material:	Plastic, aluminum, glass
Shell color:	Black or white

Environmental

Ambient working temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Humidity:	30 % to 70 % RH
Max. altitude:	2000 m/ 6562 ft

Electrical

Power supply:	230 VAC, 50/60Hz
Power consumption:	< 1 W

Output circuits ratings

Max. switching voltage:	230 VAC
Max. switching current:	5 A

Sensors, meters

Internal-temperature sensor:	No
Ambient temperature sensor	Yes
Humidity sensor:	Yes
Light sensor:	Yes

Radio

Wi-Fi	
Protocol:	802.11 b/g/n
RF band:	2401 - 2495 MHz
Max. RF power:	< 20 dBm
Range:	Up to 30 m/ 100 ft indoors and 50 m/ 160 ft outdoors (Depends on local conditions)

Bluetooth

Protocol:	4.2
RF band:	2400 - 2483.5 MHz
Max. RF power:	< 4 dBm
Range:	Up to 10 m/ 33 ft indoors and 30 m/ 100 ft outdoors (Depends on local conditions)

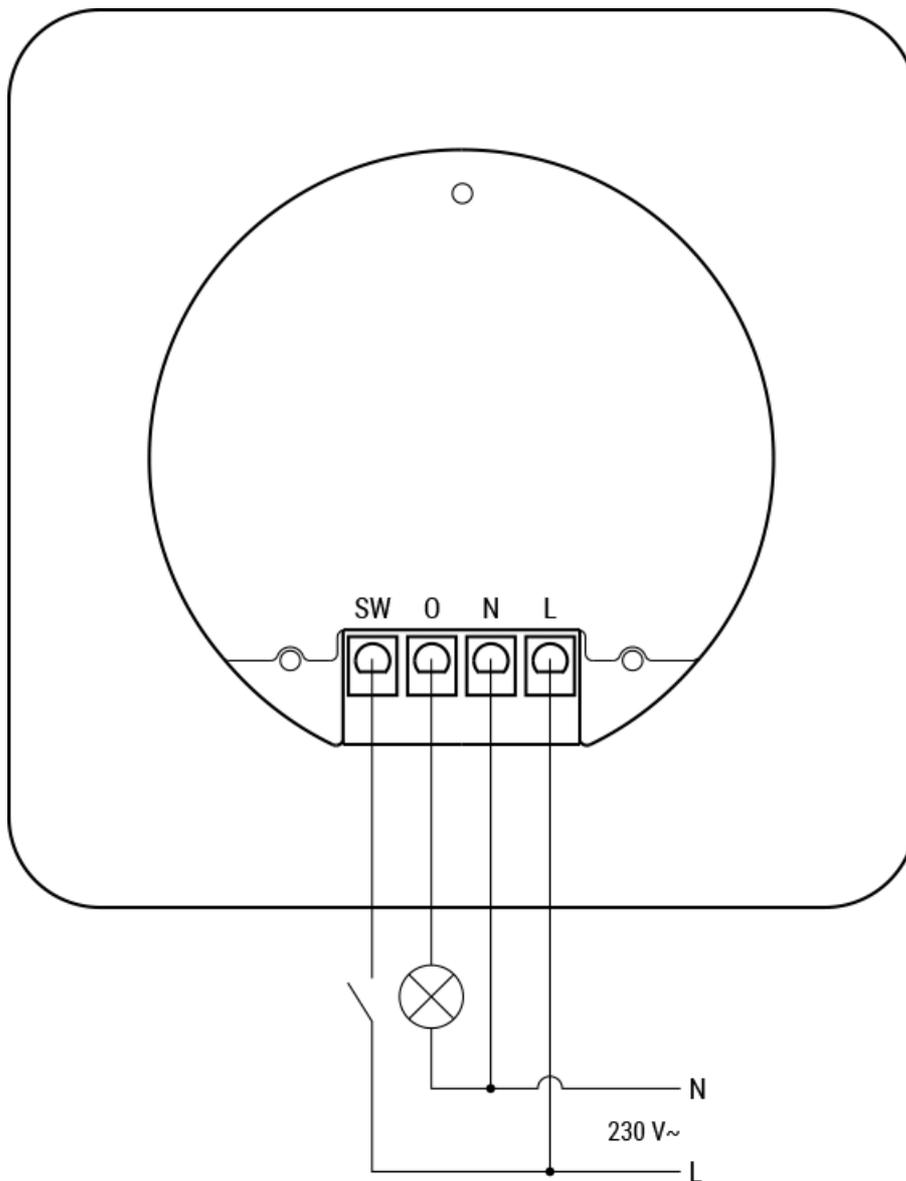
Microcontroller unit

CPU:	MTK6580
RAM:	1 GB
Flash:	8 GB

Firmware capabilities

Schedules:	20
Webhooks (URL actions):	20 with 2 URLs per hook...
Scripting:	No

Basic wiring diagrams



Legend

	Terminals		Wires
SW	Switch input terminal	N	Neutral wire
O	Output terminal	L	Live (230 VAC, 50/60 Hz) wire
N	Neutral terminal		
L	Live (230 VAC, 50/60 Hz) terminal		

Troubleshooting

--- DESCRIBE POSSIBLE CAUSES AND THE WAYS TO ALLEVIATE THEM ---

Components and APIs

[All Shelly devices and services](#)

Compliance

[Shelly Wall Display multilingual EU declaration of conformity.pdf](#)

[Shelly Wall Display White UK PSTI ACT Statement of compliance.pdf](#)

[Shelly Wall Display Black UK PSTI ACT Statement of compliance.pdf](#)

Printed user guide

[Shelly Wall Display_v03_web.pdf](#)

Installation guides



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