

AD-DA.ca, Shelly

Description

The Shelly plugin controls and monitors one Shelly device of the Plus (Gen2), Pro, Gen3 or Gen4 lineups from a Q-SYS Core. It talks to the device over its RPC WebSocket (API Gen2+): commands go out immediately and every change made on the device, from its inputs, its app or another system, comes back at once as a notification.

The plugin is built from the components of the device: switches, inputs, covers, lights (dimmer, RGB, RGBW, CCT, RGBCCT bulbs), power and energy meters, sensors (including presence zones and battery), the thermostat of the Wall Display and the virtual components. Pick the model and its components are filled in, or pick `<Custom>` and set how many of each the device has.

The device must run a Gen2+ firmware and be reachable from the Core on TCP port 80. Battery-powered devices (H&T, Smoke...) sleep and can only be reached when powered by USB.

Key Features

- **Every Gen2+ device** — 80 models with their profiles, plus a `<Custom>` model for any other device
- **Real-time two-way control** — WebSocket connection, notifications of every status change and input event
- **25 component types** — Switch, Input, Cover, Light, RGB, RGBW, CCT, RGBCCT, Power Meter, Energy Meter, 3-Phase Meter, Temperature, Humidity, Illuminance, Voltmeter, Presence Zone, Device Power, Thermostat, virtual Boolean, Number, Text, Enum and Button, BTHome Device and Sensor
- **Virtual components** — Booleans, numbers, texts, enums and buttons created on the Shelly (Virtual license feature)
- **Bluetooth devices** — Shelly BLU sensors and buttons relayed by a Shelly gateway (BTHome license feature)
- **Sensor Add-on** — Inputs, temperature, humidity and voltmeter peripherals of the add-on
- **Power monitoring** — Power, energy, voltage, current and temperature of every channel that measures them, with an energy counter reset
- **Hold-to-dim** — Dim Up / Dim Down buttons on every light, dimming while held
- **Protected password** — Digest authentication, the password is kept out of the plugin's controls
- **Model check** — A component the device does not have is reported in `Status`, the unsupported fields are disabled

Release Notes

2.0.0.0

Breaking Change

- Changed the plugin to a completely new plugin, built on the Shelly WebSocket API: pages, controls, pins and properties are all new, designs made with 1.x must be rebuilt
- Changed the licensing: licenses from before 2.0 must be reactivated to use version 2.0 and later

Improvement

- Added support for nearly every Shelly Gen2, Gen3, Gen4 and Pro device: pick a preset model to fill its components automatically, or `<Custom>` to set how many of each component the device has
- Added support for Virtual components and BTHome components, each with its own feature of the license

1.5.0.8

Improvement

- Added the Shelly Power Strip 4 Gen4

1.5.0.5

Fixes

- Fixed the brightness sent with `Light.Set` not being applied

1.5.0.0

Improvement

- Added the Shelly Plus Plug S (`PlusPlugS`)

1.4.0.0

Improvement

- Added the Shelly Plug S Gen3 (`PlugSG3`)
- Added the Shelly Pro Dimmer 1PM and 2PM (`ProDimmerx`), tested with firmware 1.4.4

- Added the `Pro Dimmer Model` property to select the Pro Dimmer sub-model

1.3.0.0

Improvement

- Added the Shelly 1PM Mini Gen3 and the Shelly 1 Mini Gen3

1.2.0.0

Improvement

- Added the Shelly Plus 0-10V Dimmer (`Plus10V`)

1.1.0.0

Improvement

- Added the `Rate` property to set the poll rate

1.0.0.0

Improvement

- Added the first release of the plugin

Properties

Shelly Properties	
License	
License	
License Backup	
Device	
Model	Shelly Pro 2PM (Switch) ▼
<i>Fills the component counts; <Custom> sets them one by one below.</i>	
Knob Debounce	Yes ▼
<i>Sends only the value a knob settles on instead of every movement.</i>	
Virtual Components	
Boolean Count	0
<i>Components created on the Shelly, needs the Virtual license feature.</i>	
Number Count	0
Text Count	0
Enum Count	0
Button Count	0
Bluetooth (BTHome)	
BTHome Device Count	0
<i>Bluetooth devices relayed by this Shelly, needs the BTHome license</i>	
BTHome Sensor Count	0
Debug	
Debug Print	None ▼

License

Type: `string`

Default Value: *(empty)*

Description: License key of the primary Core. A license of a version before 2.0 must be reactivated to work with 2.0 and later.

License Backup

Type: `string`

Default Value: *(empty)*

Description: License key of the backup Core.

Model

Type: `enum`

Default Value: `<Custom>`

Description: Model of the device. Every model fills the component counts of the plugin; a model with several profiles has one entry per profile, the profile must match the one set on the device.

`<Custom>` shows one count property per component type.

► Models

Knob Debounce

Type: `boolean`

Default Value: `true`

Description: Sends only the value a knob settles on instead of every movement.

Switch Count ... Thermostat Count

Shelly Properties	
License	
License	
License Backup	
Device	
Model	<Custom> ▼
<i>Fills the component counts; <Custom> sets them one by one below.</i>	
Knob Debounce	Yes ▼
<i>Sends only the value a knob settles on instead of every movement.</i>	
Custom Model	
Switch Count	2
Input Count	2
Cover Count	0
Light Count	1
RGB Count	0
RGBW Count	0
CCT Count	0
RGBCCT Count	0
Power Meter Count	0
Energy Meter Count	0
3-Phase Meter Count	0
Temperature Count	1
Humidity Count	0
Illuminance Count	0
Voltmeter Count	0
Presence Zone Count	0
Device Power Count	0
Thermostat Count	0
Power Metering	Yes ▼
<i>Shows power, energy, voltage and current on switches, covers and li</i>	
Virtual Components	
Boolean Count	0
<i>Components created on the Shelly, needs the Virtual license feature.</i>	
Number Count	0
Text Count	0
Enum Count	0
Button Count	0
Bluetooth (BTHome)	
BTHome Device Count	0
<i>Bluetooth devices relayed by this Shelly, needs the BTHome license</i>	
BTHome Sensor Count	0
Sensor Add-on	
Sensor Add-on	Yes ▼
<i>Adds the peripherals of the Sensor Add-on (component ids from 100</i>	
Add-on Input Count	0
Add-on Temperature Count	2
Add-on Humidity Count	0
Add-on Voltmeter Count	0
Debug	
Debug Print	None ▼

Type: integer

Min: 0

Default Value: 1 for Switch Count, 0 for the others

Description: Number of components of each type on the `<Custom>` model, numbered from id `0` as on the device. Only shown on the `<Custom>` model.

Property	Max
Switch Count	8
Input Count	8
Cover Count	4
Light Count	8
RGB Count	2
RGBW Count	2
CCT Count	2
RGBCCT Count	2
Power Meter Count	4
Energy Meter Count	4
3-Phase Meter Count	2
Temperature Count	8
Humidity Count	4
Illuminance Count	2
Voltmeter Count	4
Presence Zone Count	10 (ids from 200)
Device Power Count	1
Thermostat Count	1

Boolean Count / Number Count / Text Count / Enum Count / Button Count

Type: `integer`

Min: `0`

Max: `10`

Default Value: `0`

Description: Number of virtual components of each type created on the device, numbered from id

200 as on the device (**boolean:200** , **enum:200** ...). Shown on every model, under **Virtual Components**; they need the Virtual feature of the license; virtual components exist on the Pro and Gen3/Gen4 devices.

BTHome Device Count / BTHome Sensor Count

Type: **integer**

Min: **0**

Max: **10** / **20**

Default Value: **0**

Description: Number of Bluetooth devices and sensors the Shelly relays, numbered from id **200** as on the device (**bthomedevice:200** , **bthomesensor:200** ...). Shown on every model, under **Bluetooth (BTHome)**; they need the BTHome feature of the license.

Power Metering

Type: **boolean**

Default Value: **false**

Description: Adds power, energy, voltage and current to the switches, covers and lights of the **<Custom>** model. Only shown on the **<Custom>** model.

Sensor Add-on

Type: **boolean**

Default Value: **false**

Description: Adds the peripherals of the Shelly Sensor Add-on, whose components are numbered from id **100** . Only shown on **<Custom>** and on the models that accept the add-on.

Add-on Input Count / Add-on Temperature Count / Add-on Humidity Count / Add-on Voltmeter Count

Type: **integer**

Min: **0**

Max: **2** / **5** / **1** / **1**

Default Value: **0**

Description: Number of add-on peripherals of each type. They follow the components of the same type on their page. Only shown when **Sensor Add-on** is enabled.

Debug Print

Type: **enum**

Choices: **None** , **RX** , **TX** , **RX/TX** , **Function Calls** , **All**

Default Value: **None**

Description: Prints the messages exchanged with the device (RX, TX) and the function calls to the plugin's debug output.

Controls

A component page only exists when the model has components of its type. Every control of a component is disabled while the device is not connected, when the device does not have the component, and, for a value, when the device does not report it (an analog reading on a button input, the slat position of a cover without slats...).

Commands are sent in order, at most three at a time. When a control changes faster than the device answers, only its last value is sent. A command the device refuses, or does not answer within 5 seconds, puts the control back to what the device reports.

Status

Controls name: Status

Type: Indicator-Status

Pin Style: Output

Pin Name: Status

Description: Displays the plugin's operational status: OK when connected, Missing while the device is not connected, Fault when the configuration is wrong, Compromised when the device reports a problem.

OK

Compromised - switch:2 overpower

Fault - Not on the device: switch:2, switch:3, input:2, input:3

State	When	Messages
OK	Connected, the device has every component of the model and reports no error	(empty)
Missing	The device is not connected	Connecting to 192.168.10.41, Reading the device, 192.168.10.41 does not answer, Connection closed by 192.168.10.41
Fault	Wrong configuration	IP address is not set, Invalid port in ..., Password refused by the device,

		The device requires a password, Not on the device: ... (model or profile), Invalid license, Virtual Components not included in the license, Bluetooth (BTHome) not included in the license
Compromised	A component of the device reports errors (overpower, overtemp, overvoltage, undervoltage, obstruction...)	<component> <errors>, for example switch:2 overpower

Switches Page


Shelly Pro 2PM (Switch)


Version 2.0.0.0

OK

Switch 1
switch:0

Name

Projector Lift

Output / Toggle

On

Toggle

Power (W) / Energy (kWh)

182.4

48.21

Reset

Voltage (V) / Current (A)

231.2

0.81

Temperature (°C)

43.1

Errors

Initial State / Input Mode

off

detached

Auto On / Delay (s)

Auto On

60.0

Auto Off / Delay (s)

Auto Off

900.0

Switch 2
switch:1

Name

Display Power

Output / Toggle

On

Toggle

Power (W) / Energy (kWh)

0.0

1.29

Reset

Voltage (V) / Current (A)

231.0

0.0

Temperature (°C)

43.1

Errors

Initial State / Input Mode

restore_last

follow

Auto On / Delay (s)

Auto On

60.0

Auto Off / Delay (s)

Auto Off

60.0

Switch

One section per `switch` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Switch controls

Inputs Page

Version 2.0.0.0

Shelly Pro 2PM (Switch)

AD-DA CA

OK

Input 1

input:0

Name

Lectern Button

Type / Invert

button

Invert

State

Analog (%) / Count

0.0

0.0

Last Event

single_push

Single / Double / Triple / Long

Single

Double

Triple

Long

Input 2

input:1

Name

Door Contact

Type / Invert

switch

Invert

State

Analog (%) / Count

0.0

0.0

Last Event

Single / Double / Triple / Long

Single

Double

Triple

Long

Input

One section per `input` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Input controls

Covers Page

Cover

One section per `cover` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Cover controls

Lights Page

Version 2.0.0.0

Shelly Pro RGBWW PM (RGB + CCT)

AD-DA CA

OK

RGB 1

rgb:0

Name

Ceiling Cove

Output / Toggle

On

Toggle

Brightness (%)

65%

Dim Up / Dim Down

Dim Up

Dim Down

Red / Green / Blue

255

140

40

Transition (s)

1.5

Power (W) / Energy (kWh)

18.2

3.21

Reset

Voltage (V) / Current (A)

24.1

0.75

Temperature (°C)

38.4

Errors

Initial State / Input Mode

restore_last

detached

CCT 1

cct:0

Name

Downlights

Output / Toggle

On

Toggle

Brightness (%)

80%

Dim Up / Dim Down

Dim Up

Dim Down

Color Temperature (K)

3500

Transition (s)

2.0

Power (W) / Energy (kWh)

22.6

4.11

Reset

Voltage (V) / Current (A)

24.1

0.94

Temperature (°C)

38.4

Errors

Initial State / Input Mode

off

follow

Light

One section per `light` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Light controls

RGB

One section per `rgb` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► RGB controls

RGBW

One section per `rgbw` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► RGBW controls

CCT

One section per `cct` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► CCT controls

RGBCCT

One section per `rgbcct` component (the RGBCCT bulb), `N` being its number on the page (component id `N - 1`). `Mode` switches the bulb between colour (`rgb`) and white (`cct`).

► RGBCCT controls

Meters Page

Version 2.0.0.0

Shelly Pro 3EM / 3EM-3CT63 (Triphase)

AD-DA CA

OK

3-Phase Meter 1

em.0

Name	AV Rack Feed		
Phase A (V / A / W)	120.4	6.21	702.3
Phase B (V / A / W)	120.1	4.87	551.8
Phase C (V / A / W)	120.6	2.12	240.5
Total (A / W) / Neutral (A)	13.2	1494.6	3.6
Energy / Returned (kWh)	8432.11	0.0	
Errors			

Power Meter

One section per `pm1` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Power Meter controls

Energy Meter

One section per `em1` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Energy Meter controls

3-Phase Meter

One section per `em` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► 3-Phase Meter controls

Sensors Page

Version 2.0.0.0

Shelly H&T Gen3

AD-DA CA

OK

Temperature 1

temperature:0

Name

Rack Inlet

Temperature (°C / °F)

24.5

76.1

Errors

Humidity 1

humidity:0

Name

Rack Inlet

Relative Humidity (%)

41.0

Errors

Device Power 1

devicepower:0

Battery (%) / Voltage (V)

87.0

2.94

External Power

Errors

Temperature

One section per `temperature` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Temperature controls

Humidity

One section per `humidity` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Humidity controls

Illuminance

One section per `illuminance` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Illuminance controls

Voltmeter

One section per `voltmeter` component, `N` being its number on the page (component id `N - 1`, or `100` and up for the Sensor Add-on).

► Voltmeter controls

Presence Zone

One section per presence zone of the Shelly Presence, `N` being its number on the page (component id `199 + N`, the main zone is `presencezone:200`).

► Presence Zone controls

Device Power

Battery and external power of the devices that have them (H&T...), component id `N - 1`.

► Device Power controls

Climate Page

Thermostat

One section per `thermostat` component (component id `N - 1`).

► Thermostat controls

Virtual Page

Virtual components are created on the Shelly itself (web interface, **Components › Add**): booleans, numbers, texts, enums and buttons that scripts, the Shelly app and the plugin share.

The Virtual page needs the **Virtual** feature of the license. Without it the page stays disabled and **Status** is **Fault - Virtual Components not included in the license**.

Boolean

One section per virtual **boolean** component, **N** being its number on the page (component id **199 + N**). The component must first be created on the device (web interface, **Components › Add**).

► Boolean controls

Number

One section per virtual **number** component, **N** being its number on the page (component id **199 + N**).

► Number controls

Text

One section per virtual **text** component, **N** being its number on the page (component id **199 + N**).

► Text controls

Enum

One section per virtual **enum** component, **N** being its number on the page (component id **199 + N**).

► Enum controls

Button

One section per virtual **button** component, **N** being its number on the page (component id **199 + N**).

► Button controls

Bluetooth Page

Version 2.0.0.0
Shelly BLU Gateway Gen3
AD-DA CA

OK

BTHome Device 1
bthomedevice:200

Name
Lectern Remote

Battery (%) / Signal (dBm)
96.0
-71.0

Last Update
2026-10-15 14:11:13

Address
3c:2e:f5:71:d5:2a

Last Event
single_push (button 1)

Single / Double / Triple / Long
Single
Double
Triple
Long

Errors

BTHome Sensor 1
bthomesensor:200

Name
Lobby Temperature

Type
Temperature (°C)

Value / State
21.4

Text
21.4

Last Update
2026-10-15 14:11:02

BTHome Sensor 2
bthomesensor:201

Name
Patio Door

Type
Window

Value / State
0.0

Text
true

Last Update
2026-10-15 14:09:50

Shelly BLU devices (H&T, Door/Window, Motion, Button, Remote...) cannot reach a Q-SYS Core: a Shelly with its Bluetooth gateway enabled, or a Shelly BLU Gateway Gen3, receives them and the plugin reads them from that Shelly. The devices and their sensors must first be added on the Shelly (web interface, **Components** › **Add device**).

The Bluetooth page needs the **BTHome** feature of the license. Without it the page stays disabled and **Status** is **Fault - Bluetooth (BTHome) not included in the license**.

BTHome Device

One section per Bluetooth device, **N** being its number on the page (component id **199 + N**).

► BTHome Device controls

BTHome Sensor

One section per reading of a Bluetooth device (a BLU H&T gives one temperature and one humidity sensor), `N` being its number on the page (component id `199 + N`).

► BTHome Sensor controls

Setup Page

The screenshot shows the 'Shelly Pro 2PM (Switch)' setup page. At the top, it says 'Version 2.0.0.0' and 'AD-DA CA'. Below the title bar, there's a green bar with 'OK'. The main content is divided into two sections: 'Connection' and 'Device'.

Connection Section:

- IP Address / Hostname: 192.168.10.41
- Password: (empty field)
- Connected: (green dot icon)
- Reconnect: (blue button)

Device Section:

- Name: Boardroom Relays
- Model: Pro2PM · SPSW-202PE16EU · Gen 2
- Firmware: 1.4.4
- MAC Address: 30C6F7A1B2C4
- Network: Ethernet · 192.168.10.41
- Uptime: 14d 00:03:04
- Profile: switch (dropdown menu)
- Restart Required: (brown dot icon)
- Firmware Update: 1.6.2
- Reboot: (red button)
- Update: (red button)

Connection

IP Address / Hostname

Controls name: `connection_host`

Type: `Text`

Pin Style: `Input` / `Output`

Pin Name: `Connection~Host`

Description: Address of the device, optionally followed by a port (`192.168.10.41:8080`); a pasted address such as `http://192.168.10.41/` is accepted. The plugin connects as soon as it is set and tries again every 5 seconds when the connection is lost, `Status` showing the reason until the device answers. A device silent for 20 seconds is considered disconnected. A port outside `1-65535` sets `Status` to `Fault`.

Password

Controls name: connection_password

Type: Text

Pin Style: Input / Output

Pin Name: Connection~Password

Description: Password of the device when its authentication is enabled (user `admin`). It is moved to a hidden storage and replaced by a mask; an empty entry clears it. A refused password is never retrieved, not even after a reconnection, so the device does not block the Core: the plugin stays disconnected until the password, the address or `Reconnect` is changed.

Connected

Controls name: connection_connected

Type: Indicator-LED

Pin Style: Output

Pin Name: Connection~Connected

Description: On once the device has been read.

Reconnect

Controls name: connection_reconnect

Type: Button-Trigger

Pin Style: Input / Output

Pin Name: Connection~Reconnect

Description: Closes the connection and opens it again.

Device

Name

Controls name: device_name

Type: Text

Pin Style: Input / Output

Pin Name: Device~Name

Description: Name of the device, written to the device when changed.

Model

Controls name: device_model

Type: Indicator-Text

Pin Style: Output

Pin Name: Device~Model

Description: Application, model number and generation reported by the device (`Pro2PM` · `SPSW-202PE16EU` · `Gen 2`).

Firmware

Controls name: `device_firmware`

Type: `Indicator-Text`

Pin Style: `Output`

Pin Name: `Device~Firmware`

Description: Firmware version of the device.

MAC Address

Controls name: `device_mac`

Type: `Indicator-Text`

Pin Style: `Output`

Pin Name: `Device~MAC Address`

Description: MAC address of the device.

Network

Controls name: `device_network`

Type: `Indicator-Text`

Pin Style: `Output`

Pin Name: `Device~Network`

Description: Link of the device: `Ethernet · 192.168.10.41` on the Pro devices wired to the network, otherwise `Wi-Fi · <SSID> · <address> · <signal> dBm`.

Uptime

Controls name: `device_uptime`

Type: `Indicator-Text`

Pin Style: `Output`

Pin Name: `Device~Uptime`

Description: Time since the device started, as days and hours.

Profile

Controls name: `device_profile`

Type: `Text-ComboBox`

Pin Style: `Input` / `Output`

Pin Name: `Device~Profile`

Description: Profile of the devices that have several (`switch` / `cover`, `light` / `rgb` / `rgbw` ...). Choosing another one changes the components of the device and restarts it: pick the `Model` entry of the new profile too. Disabled on devices without profiles.

Restart Required

Controls name: `device_restart_required`

Type: `Indicator-LED`

Pin Style: `Output`

Pin Name: Device~Restart Required

Description: On when a setting changed on the device only applies after a restart.

Reboot

Controls name: device_reboot

Type: Button-Trigger

Pin Style: Input / Output

Pin Name: Device~Reboot

Description: Restarts the device.

Update Available

Controls name: device_update_available

Type: Indicator-Text

Pin Style: Output

Pin Name: Device~Update Available

Description: Stable firmware version available for the device, or Up to date.

Update

Controls name: device_update

Type: Button-Trigger

Pin Style: Input / Output

Pin Name: Device~Update

Description: Installs the available stable firmware. The device restarts at the end of the update. Disabled when the device is up to date.

A model with more components than the device, or a profile different from the one set on the device, sets Status to Fault and lists the missing components. The plugin keeps controlling the components it found.

About Page

License

Controls name: about_license

Type: Indicator-Status

Pin Style: Output

Pin Name: About~License

Description: Valid, Invalid or Emulating.

Feature - BTHome

Controls name: `about_feature_bthome`

Type: `Indicator-Status`

Pin Style: `Output`

Pin Name: `About~Feature BTHome`

Description: `Enabled` when the license includes the Bluetooth (BTHome) devices, `Disabled` otherwise.

Feature - Virtual

Controls name: `about_feature_virtual`

Type: `Indicator-Status`

Pin Style: `Output`

Pin Name: `About~Feature Virtual`

Description: `Enabled` when the license includes the virtual components, `Disabled` otherwise.

Documentation

Controls name: `about_doc_url`

Type: `Indicator-Text`

Pin Style: `Output`

Pin Name: `About~Documentation`

Description: Address of this guide.