

Remote controlled lay-z-spas



photo cred: davidmardanielsson



photo cred: jarisiv

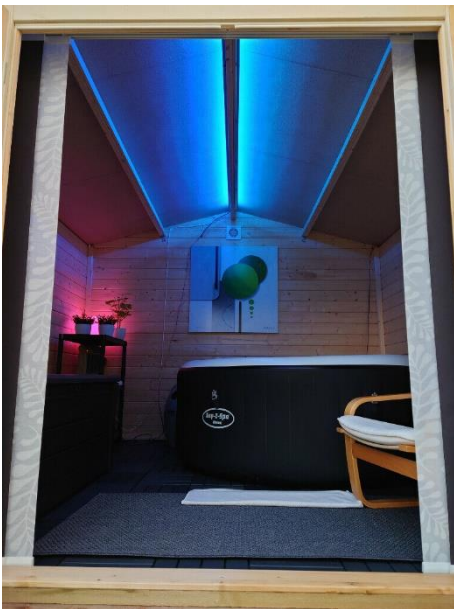


photo cred: torei

How to build the Wi-Fi remote for Bestway Lay-Z-Spa

TOC

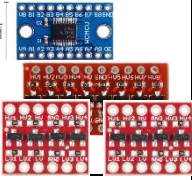
| | |
|--|----|
| Remote controlled lay-z-spas | 1 |
| How to build the Wi-Fi remote for Bestway Lay-Z-Spa..... | 2 |
| 1) If you like this project, please buy me a coffee: | 3 |
| 2) Checking compatibility | 4 |
| Table of models (not exhaustive) | 4 |
| General info on pump models | 5 |
| Open the pump to verify number of wires | 5 |
| 3) Hardware | 6 |
| BOM..... | 6 |
| 4) Build 6 wire | 7 |
| 5) Build 4-wire | 9 |
| 6) Build continued | 9 |
| 7) Software..... | 10 |
| 8) After upload. (Did you upload the data files as well?!) | 11 |
| 9) Extra features (only 6-wire)..... | 12 |
| 10) Web interface | 13 |
| 11) Connect | 15 |
| 12) Passwords and credentials..... | 15 |
| 13) Secret key combination | 16 |
| 14) Hardware test | 16 |
| 15) MQTT | 17 |
| 16) Homeassistant..... | 20 |
| 17) FAQ | 21 |
| 18) If you like this project, please buy me a coffee: | 21 |

- 1) If you like this project, please buy me a **coffee**:
[PayPal.me/TLandahl](https://www.paypal.com/donate/?url=https%3A%2F%2Fgithub.com%2Fvisualapproach%2FWiFi-remote-for-Bestway-Lay-Z-SPA)

Thank you!

2) Checking compatibility

Table of models (not exhaustive)

| Alias examples These names can be sold with other pump models than listed here! | Model Number | Pump shape | Wires | Model.h MALDIVES2021=hydrojets MIAMI2021=no jets | Confirmed working with  |
|--|--------------|--------------|-------|--|---|
| 2021 Bali | ? | Square 2021 | 6 | MIAMI2021 | |
| 2021 Maldives/Hydrojets | ? | Square 2021 | 6 | MALDIVES2021 | |
| Riviera | 12220 | Eggshape | ? | ? | |
| Coleman SaluSpa | 13804 ? | Eggshape | 6 | PRE2021 | |
| Dreamstream | 24949 | Square2021 | 6 | MIAMI2021 | 2 (PCB_V2B) |
| Vegas | 54112 | ? | 4 | NO54123 | |
| Monaco | 54113 | Eggshape | ? | ? | |
| Vegas | 54122 | Eggshape | 6 | ? | |
| Miami | 54123 | Eggshape | 6/4 | PRE2021/NO54123 | |
| Palm Springs | 54129 | Eggshape | 4 | NO54154 | |
| Hawaii/Hydrojet | 54138 | Square | 4 | NO54138 | |
| Palm Springs/Hydrojet | 54144 | Square | ? | Probably | |
| Paris | 54148 | Eggshape | ? | ? | |
| Bestway Paris | 54149E | ? | 6 | NO54149E | |
| Hawaii airjet | 54154 | Eggshape | 6 | PRE2021 | 2 |
| Siena | 54156 | Eggshape | 4 | ? | |
| 2019 Maldives/Hydrojets | 54173 | Square | 4 | NO54173 | |
| Honolulu | 54174 | Eggshape | 6 | ? | |
| St. Moritz | 54175 | Eggshape | 6 | PRE2021 | |
| Bali | 54183 | Eggshape | 6 | PRE2021 | |
| Milan | 54184 | Eggshape | ? | ? | |
| Tahiti | 54186 | Eggshape | 6 | PRE2021 | |
| Helsinki | 54189 | Eggshape | 6 | PRE2021 | 1+2 |
| Cancun | 54286 | Eggshape | 6 | ? | |
| Ibiza | 54291 | Eggshape | ? | ? | |
| Havana | 54298 | Eggshape | ? | ? | |
| | 54327 | | 6 | PRE2021 | |
| Coleman SaluSpa Cali | 90437E | Eggshape | 6 | PRE2021 | |
| Dreamstream P06461 | 24949 | Square 2021 | 6 | MIAMI2021 | |
| St. Lucia/Rio | S100101 | Square 2021 | 6 | MIAMI2021 | 1+2 |
| 2021 Miami | S100102 | Square 2021 | 6 | MIAMI2021 | |
| Helsinki | S100103 | | 6 | MIAMI2021 | |
| SaluSpa Honolulu | S100104 | Square 2021 | 6 | MIAMI2021 | |
| Maldives | S100104 | Square 2021 | 6 | MALDIVES2021 | 2 |
| Saluspa Miami | S100105 | Square 2021? | 6 | MIAMI2021 | 1 |
| Santorini whirlpool | S200102 | ? | 6 | MIAMI2021 | |

| | | | | | |
|----------------------------|----------------|-------------|---|--------------|-------------|
| <i>Hawaii Hydrojet Pro</i> | S200102 | Square 2021 | 6 | MALDIVES2021 | 2 (PCB_V2B) |
| <i>Ibiza 2021</i> | 60015 | Square 2021 | 6 | MIAMI2021 | 1 |

General info on pump models

- If you find errors in the table above, or want to add information, please post a discussion on github.
- Some 4-wire models are reported to get communication error messages. Some due to poor power supply, some suspected to be caused by something else (no conclusions yet)
- 2021 and later 6-wire models may need 560-680 Ohms resistors between LLC and display (CLK, DATA, CS), as reported by cyberfly79. Use short wires. I can't say what models since the reports is differing on the same models. If the display flashes you need them. @SigmaPic came up with the idea of using other pins and it should hopefully solve this issue. See later in this doc.
- NO54149E may show sporadic button presses.

Open the pump to verify number of wires

Unscrew the 6 screws as the picture shows, and carefully lift the display. It is attached with a cable with a connector on it. Check if there are 6 or 4 wires/pins. Other models can be disassembled in a similar manner. On the older Hydrojets you must remove the whole cover, not the display. That pump is heavy and fiddlier to disassemble on your own.




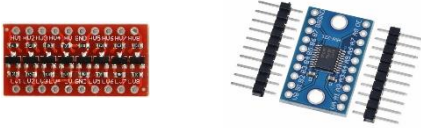

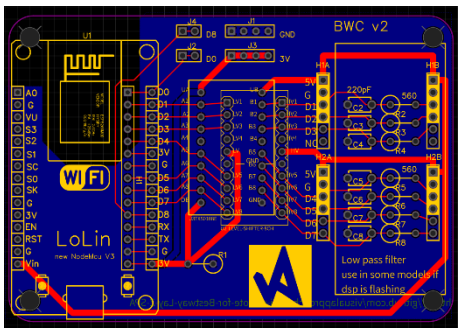
Example – eggshaped 6-wire pump



2021 square model

3) Hardware

BOM

| | |
|---|---|
| ESP8266 NodeMCU 1.0 (12E) V3 (V3 is wider than V2) (NOT ESP32) |  |
| 8 channel bidirectional level converter TXS0108E (NOT TXB...) |  |
| 6 or 4 pin male/female pair cable 0.1" spacing: JST SM Housing Connector www.wish.com |  |
| PCB version 2 (better option) https://oshwlab.com/visualapproach/bestway-wireless-controller-2 https://easyeda.com/visualapproach/bestway-wireless-controller-2 PCB v1 https://oshwlab.com/Visualapproach/bestway-wifi-controller https://easyeda.com/Visualapproach/bestway-wifi-controller To order, scroll down to the PCB layout, click open in editor. Then go to Fabrication/download gerber files. <i>(I don't get % on your order. You pay same \$ as I did)</i> |  |
| Resistor, 10K Ohms, through hole | Optional For power-on stability. I run without it and it works fine. |
| Female header pins (0.1") | Optional but highly recommended! Make sockets for the ESP and LLC. Removing a broken part is very time consuming if soldered directly to the PCB. |

Read discussion #312 if you want to experiment with D1_mini without extra components.

<https://github.com/visualapproach/WiFi-remote-for-Bestway-Lay-Z-SPA>

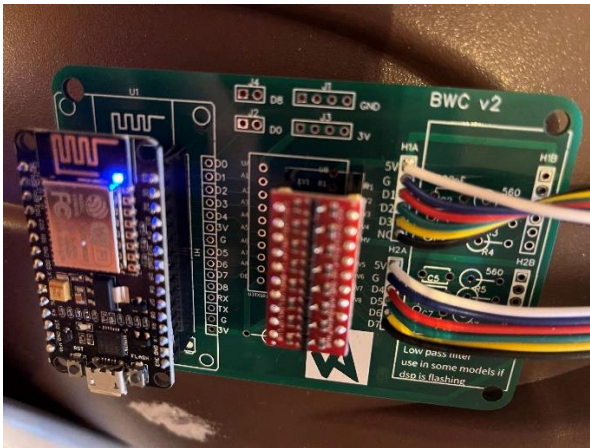
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4) Build 6 wire

PCB version 1: Solder the 6-wire cables to the PCB (H1, H2):



PCB version 2 (recommended): Solder the 6-wire cables to the PCB (H1A, H2A):



On some 2021+ models you will *need* to use the red LLC and define the PCB_V2B in model.h. You also need to connect the wires according to this:

```
CIO_DATA (wire #3) : D1 (port H1A)
CIO_CLK (wire #4)  : D2 (port H1A)
CIO_CS (wire #5)   : D5 (port H2A)

DSP_DATA (wire #3) : D6 (port H2A)
DSP_CLK (wire #4)  : D4 (port H2A)
DSP_CS (wire #5)   : D3 (port H1A)
```

It will look like this:

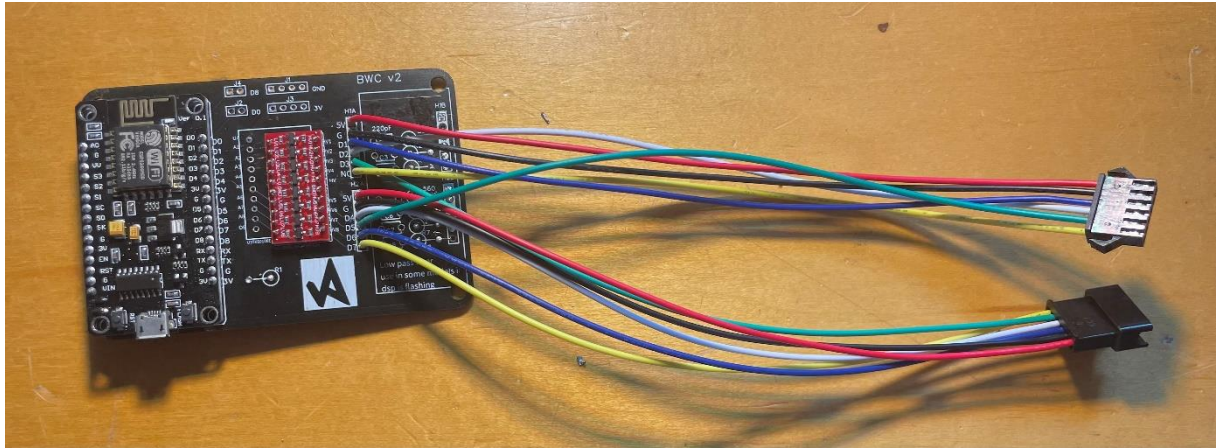


Image cred: @Bischof-Mak

The above method should take care of the problem with flashing display also.

Here is a picture of how the PCB definitions in code corresponds to the physical PCBs

USE AS ALTERNATIVE PIN OUT WITH 2021+ PUMPS

| | | PCB defined in model.h: PCB_V1 | | PCB defined in model.h: PCB_V2 | | PCB defined in model.h: PCB_V2B | |
|-------------|-------------|--------------------------------|-----|--------------------------------------|-----|---------------------------------|-----|
| | | Hardware PCB: PCB_V1 | | Hardware PCB: PCB_V2 (round corners) | | NOT A PHYSICAL PCB. | |
| Pin/wire no | Description | H1 | H2 | H1 | H2 | CIO | DSP |
| 1 | +5V | 5V | 5V | 5V | 5V | 5V | 5V |
| 2 | GND | GND | GND | GND | GND | GND | GND |
| 3 | DATA | D7 | D5 | D1 | D4 | D1 | D6 |
| 4 | CLK | D2 | D4 | D2 | D5 | D2 | D4 |
| 5 | CS | D1 | D3 | D3 | D6 | D5 | D3 |
| 6 | AUD | NC | D6 | NC | D7 | NC | D7 |

| | | PCB defined in model.h: PCB_V2B | | PCB defined in model.h: PCB_V2B | |
|-----|-------------|---------------------------------|-------------|--------------------------------------|--|
| | | Hardware PCB: PCB_V1 | | Hardware PCB: PCB_V2 (round corners) | |
| H1 | wire # | H1 | wire # | | |
| 5V | +5V | 5V | +5V | | |
| GND | GND | GND | GND | | |
| D7 | #6-DSP AUD | D1 | #3-CIO DATA | | |
| D2 | #4-CIO CLK | D2 | #4-CIO CLK | | |
| D1 | #3-CIO DATA | D3 | #5-DSP CS | | |
| NC | | NC | | | |
| H2 | wire # | H2 | wire # | | |
| 5V | +5V | 5V | +5V | | |
| GND | GND | GND | GND | | |
| D5 | #5-CIO CS | D4 | #4-DSP CLK | | |
| D4 | #4-DSP CLK | D5 | #5-CIO CS | | |
| D3 | #5-DSP CS | D6 | #3-DSP DATA | | |
| D6 | #3-DSP DATA | D7 | #6-DSP AUD | | |

5) Build 4-wire

PCB v1

Solder the 4-wire cables to the headers H3/H4. Solder the 10 K resistor.

PCB v2 (recommended):

I suggest using the red LLC (voltage level shifter) in the “U2” socket on the PCB. The blue TXS0108E IC LLC is sometimes not working. Solder the 10 K resistor if using TXS0108E LLC.

“Lazy setup”

Solder the wires to the top holes in H1A and H2A headers .

“Ambitious setup”

Install the filter capacitors C2, C3, C5, C6 and resistors R2, R3, R5, R6. Then solder the wires to the top holes in H1B and H2B headers.

See issue #208 for some info about E13.

4-wire pinout on my test pump NO54138 (Colors and pinout on your pump may differ!):

| | |
|------------------------------|----------|
| 1 (Uppermost. Black on pump) | = 5V |
| 2 (Red on pump) | = GND |
| 3 (Yellow on pump) | = DSP TX |
| 4 (Green on pump) | = CIO TX |

6) Build continued

You can go on and solder the LLC and ESP8266 directly to the PCB, but I recommend using female headers. In case you want to switch or reuse them. You will regret if not using headers...

D0, D8, 3V3 and GND is left empty. They are there for the possibility to connect auxiliary equipment. Special considerations needed. See ESP8266 datasheet.

Put the PCB in a box, plastic bag or something to protect against water if you want.

Don't connect the connectors to the pump yet.

7) Software

6-wire and 4-wire versions

DL and install Visual studio code: <https://code.visualstudio.com/download>

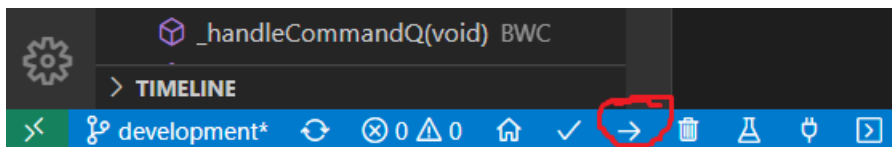
From within VSC, click on Extensions icon (ctrl+shift+X). Select PlatformIO IDE and install.

From the new platformio icon, open folder “6-wire-version” or “4-wire-version”.

Choose your model in the file “**model.h**”. Only one model must be defined. Double slashes ‘//’ means the line is commented out. To change model, comment out PRE2021 by putting // in front of that line. Remove the ‘//’ from your model. Also choose the PCB version in the same manner. You must use the #defines already existing in this file.

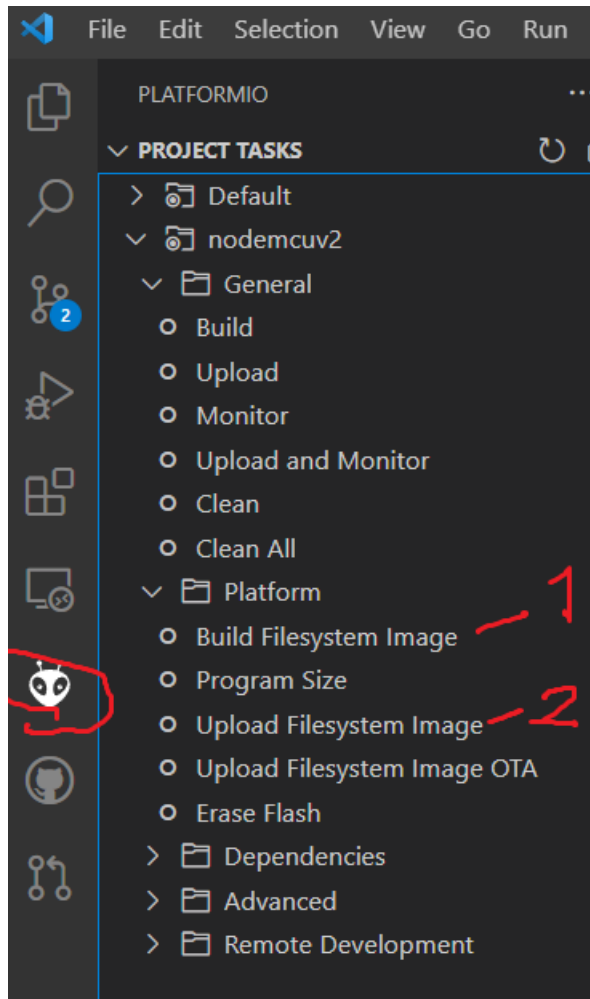
```
//uncomment your model and comment out the rest
//#define MODEL54149E //Paris airjet 54149E
#define PRE2021 //the older one, no hydrojets
//#define MIAMI2021 //no hydrojets
//#define MALDIVES2021 //hydrojets
```

Upload firmware via USB. (Right arrow at bottom of screen)



Now pay attention! Uploading the firmware is only one part of the upload. You also need to upload the data files. I can't stress this enough.

First build file system, then upload it. Se picture below.



If you miss this step you will get a 404 error!

8) After upload. (Did you upload the data files as well?!)

An Access Point is created called "Lay-Z-Spa Module". Pswd "layzspam0dule".

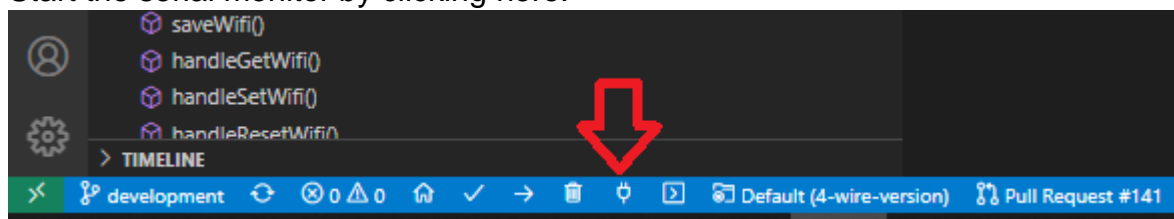
Log in and enter your wifi credentials.

Visit <http://layzspa.local> and click on the hamburger menu in the top right corner.

Select "SPA config". Enter your settings, click SAVE.

The device's IP is shown in the serial monitor window and the pump display (only 6-wire).

Start the serial monitor by clicking here:



<https://github.com/visualapproach/WiFi-remote-for-Bestway-Lay-Z-SPA>

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From now on you can update the device over the air (OTA) by editing platformio.ini file.

Default setting is to upload via USB cable:

```
upload_protocol = esptool
; upload_protocol = espota
; upload_port = layzspa.local
; upload_flags =
; --auth=esp8266
```

Edit like this to upload Over The Air. If you have several devices you would want to use different hostnames.

```
; upload_protocol = esptool
upload_protocol = espota
upload_port = layzspa.local
upload_flags =
--auth=esp8266
```

9) Extra features (only 6-wire)

You can disable the buttons on the display by editing this line in BWC_const.h

```
//set to zero to disable display buttons. Order as above.
//Example: to disable UNIT and TIMER set 1,1,0,1,0,1,1,1,1,1,1
const uint8_t EnabledButtons[] = {1,1,1,1,1,1,1,1,1,1,1};
```

Button presses will not be sent to the pump (CIO) but will be sent over WS/MQTT to be handled elsewhere.

“Countdown” or notifier

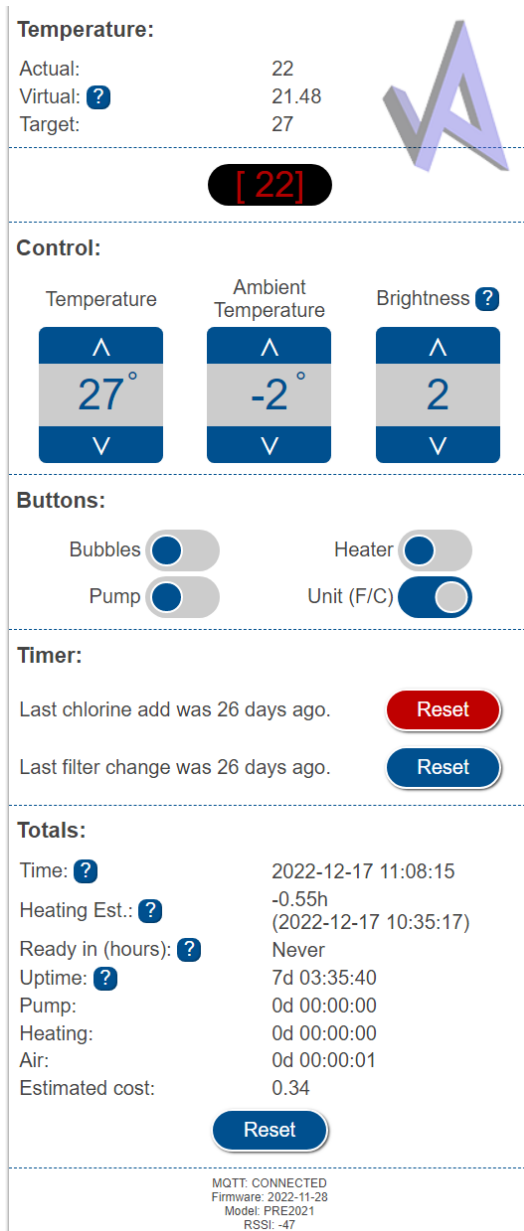
```
/** Other feats */
bool notify = false;
int notification_time = 32;
```

Change notify to true, and the display will beep and show time to next event at 32, 16, 8, 4, 2 and 1. Only for jets/bubbles/pump and heater.

Setting notification_time to something else will work the same way. Halving the remaining time as the next notification. If you for example set it to 100, it will beep at 100/50/25/12/6/3/1s before event.

As a side effect it will beep briefly at startup when the ESP restores the states.

10) Web interface



Temperature:

| | |
|------------|-------|
| Actual: | 22 |
| Virtual: ? | 21.48 |
| Target: | 27 |

[22]

Control:

| | | |
|-------------|---------------------|--------------|
| Temperature | Ambient Temperature | Brightness ? |
| ^ | ^ | ^ |
| 27° | -2° | 2 |
| v | v | v |

Buttons:

| | |
|---|--|
| Bubbles <input checked="" type="checkbox"/> | Heater <input checked="" type="checkbox"/> |
| Pump <input checked="" type="checkbox"/> | Unit (F/C) <input checked="" type="checkbox"/> |

Timer:

Last chlorine add was 26 days ago. Reset

Last filter change was 26 days ago. Reset

Totals:

| | |
|---------------------|---------------------------------|
| Time: ? | 2022-12-17 11:08:15 |
| Heating Est.: ? | -0.55h (2022-12-17 10:35:17) |
| Ready in (hours): ? | Never |
| Uptime: ? | 7d 03:35:40 |
| Pump: | 0d 00:00:00 |
| Heating: | 0d 00:00:00 |
| Air: | 0d 00:00:01 |
| Estimated cost: | 0.34 |

Reset

MQTT: CONNECTED
Firmware: 2022-11-28
Model: PRE2021
RSSI: -47

Main page (/index.html)

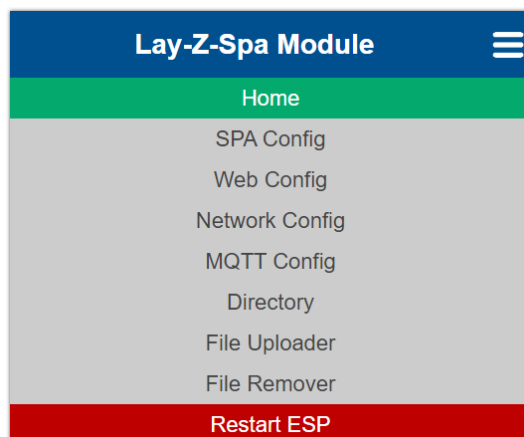
Main page shows information about the spa, like temperature, and elapsed time since last filter change, chlorine added and how long the pump has been running etc.

Press [Reset] restart the timer. These buttons will turn red when overdue.

Pressing the [Reset] button will reset the Totals times.

There is also a TTTT field in the latest version, that shows estimated time to target temperature. Negative values means time since diverting from target temperature.

MQTT status



Lay-Z-Spa Module

- Home
- SPA Config
- Web Config
- Network Config
- MQTT Config
- Directory
- File Uploader
- File Remover
- Restart ESP

Clicking the menu button reveals other actions and pages.

Author: @torei

Use File Uploader to upload data files without erasing settings etc.

[Restart ESP] restarts the ESP 8266. Just in case you want to hear that lovely melody and read the greeting on the display again.

SPA Config

Price per kWh:

Chlorine add (Interval):

Filter change (Interval):

Audio: ☒

Restore last states on startup: ☐

save

Command:

Value:

Execute time: ☐

Repeat interval: seconds
(0=once, 1h=3600, 1d=86400, 1w=604800)

add command

Command queue

clear queue

Last boot: 2022-12-17 10:34:56 Software/System restart

Schedule up to 10 actions. E.g. set target temp to 38, and turn on heater every Thursday and turn off pump every Sunday.

Set the daily energy meter to reset every midnight if using home automation.

Web Config

Show section "Temperature" ☒

Show section "Display" ☒

Show section "Control" ☒

Show section "Buttons" ☒

Show section "Timer" ☒

Show section "Totals" ☒

Use selector (instead of slider) ☒

save

Lay-Z-Spa Module

Temperature:

| | |
|------------|-------|
| Actual: | 22 |
| Virtual: ? | 21.27 |
| Target: | 27 |

Buttons:

| | |
|---|--|
| Bubbles <input checked="" type="checkbox"/> | Heater <input checked="" type="checkbox"/> |
| Pump <input checked="" type="checkbox"/> | Unit (F/C) <input checked="" type="checkbox"/> |

MQTT: CONNECTED
Firmware: 2022-11-28
Model: PRE2021
RSSI: -46

With the Web Config you can create a compact Web UI like this.

Network Config

Access Point:

Enable specific AP: ☒

SSID:

Password:

WiFi Manager Access Point:

Enable WiFi Manager AP: ☒

Static IP:

Enable static IP: ☐

IP Address: . . .

Gateway IP Address: . . .

Subnet Mask: . . .

DNS Server (primary): . . .

DNS Server (secondary): . . .

save

Reset WiFi Config:

This button resets the access point settings. The ESP will restart and start the "WiFi Configuration Manager". Connect to it's access point and configure your WiFi (just like the first configuration). Don't forget to disable WiFi Manager AP again if you want it off.

Reset WiFi

If you want to connect to another AP than you selected in the autoportal.

Advanced network settings.

Forget saved WiFi credentials.

MQTT Config

Enable MQTT: ☒

IP Address: . . .

Port:

Username:

Password:

Client ID:

Base Topic:

Telemetry Interval (s):

save

Enter your MQTT broker IP and credentials.

Telemetry interval is how often messages are sent if no changes occur.

11) Connect

Unplug pump from mains!
Connect device to pump.
Close the display with the screws.
Turn on pump and enjoy.

12) Passwords and credentials

Take a look in the file config.h

13) Secret key combination

If you press the following button sequence on the display, the ESP will reset and forget the Wi-Fi settings:

POWER

LOCK

TIMER

POWER

14) Hardware test

Visit page <http://layzspa.local/hwtestinfo.html> for information. If you get zero errors you know that the device is working. Potential problems is bad cables or similar.

15) MQTT

This chapter is for advanced users. If you know what MQTT is, and have an MQTT broker, this is what you need to know:

There is two ways to enter your credentials. You can edit the “config.h” file before compiling and then you are done with it. Or you can go to the web interface and click on the MQTT link. If you save from the MQTT web page it will override config.h.

[base topic] is set from the web UI or in config.h

Device is publishing following topics:

| | |
|---------------------------------|--|
| [base topic]/Status | |
| [base topic]/MAC_Address | |
| [base topic]/MQTT_Connect_Count | |
| [base topic]/message | Payload is JSON string containing all states of the pump. Se next table |
| [base topic]/button | Plain text. Pretty name of the button being pressed on the pump display |
| [base topic]/times | Payload is JSON string containing uptime etc. |
| [base topic]/other | Payload is JSON string containing other info such as IP, RSSI, FW, MODEL etc |
| [base topic]/reboot_time | Plain text |
| [base topic]/reboot_reason | Plain text |

Payload in `/message` is a JSON string with these key/value pairs:

| KEY | VALUE |
|--------------------|--|
| CONTENT | STATES (only used in websockets) |
| LCK | LOCKEDSTATE |
| PWR | POWERSTATE |
| UNT | UNITSTATE (0=F, 1=C) |
| AIR | BUBBLESSTATE |
| GRN | HEATGRNSTATE |
| RED | HEATREDSTATE |
| FLT | PUMPSTATE |
| TGT, TGTC, TGTF | TARGET TEMP |
| TMP, TMPC, TMPF | TEMPERATURE |
| CH1 | CHAR1 DISPLAY'S FIRST CHARACTER ASCII code |
| CH2 | CHAR2 |
| CH3 | CHAR3 |
| HJT | JETSSTATE |
| ERR | ERROR (Only 4 wire) |
| GOD | GODMODE (ESP have control) (Only 4 wire) |
| VTM | VIRTUAL TEMPERATURE |
| VTF | VIRTUAL TEMPERATURE FIX (for debugging) |
| AMB, AMBC, AMBF | AMBIENT TEMPERATURE |
| BCC | Bad CIO checksum counter (the lower the better)(Only 4 wire) |
| BDC | Bad DSP checksum counter (Only 4 wire) |

Device is subscribing to topic **layzspa/command**

Payload in **command** must be a JSON string with these key/value pairs:

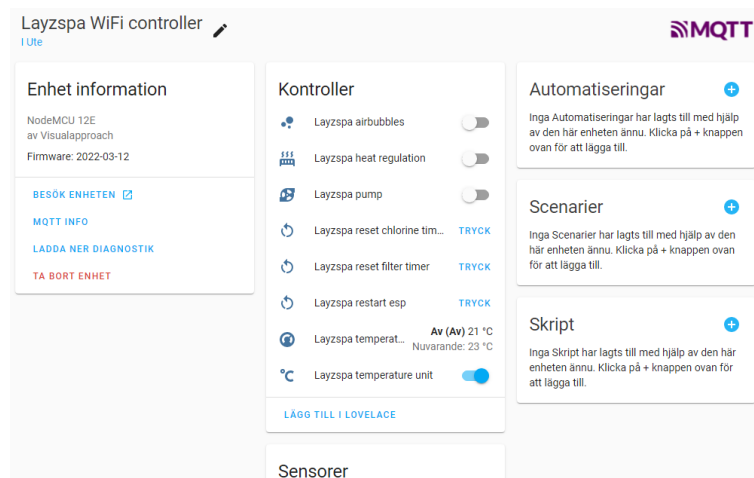
| KEY | VALUE |
|----------|---|
| CMD | INTEGER64, see next table |
| VALUE | INTEGER64 |
| XTIME | INTEGER64, Execution time in UNIX TIMESTAMP or 0 for immediate action. (Seconds since 1970) |
| INTERVAL | INTEGER64, Repeat every Nth second INTEGER or 0 for NO REPEAT |

Available commands (CMD) are

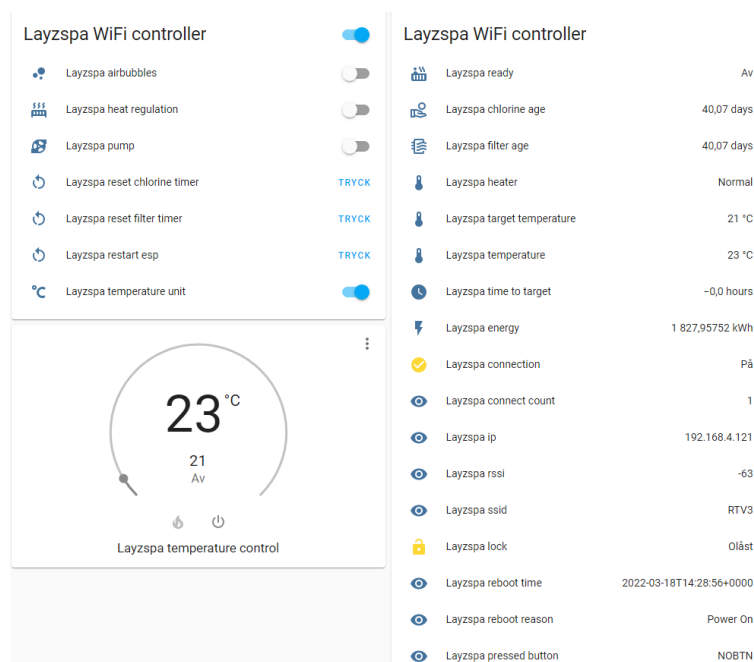
| | | |
|----|------------------------------|---|
| 0 | SETTARGET | 20-40C / 68-104F |
| 1 | SETUNIT | 0 for F, 1 for C |
| 2 | SETBUBBLES | 0/1 |
| 3 | SETHEATER | 0/1 |
| 4 | SETPUMP | 0/1 |
| 5 | RESETQ (clear command queue) | - |
| 6 | REBOOTESP | - |
| 7 | GETTARGET | (internal use) |
| 8 | RESETTIMES | Set all other timers to zero |
| 9 | RESETCLTIMER | Set chlorine age to zero |
| 10 | RESETFTIMER | Set filter age to zero |
| 11 | SETJETS | If equipped. 0/1 |
| 12 | TAKECONTROL SETBRIGHTNESS | 4 wire only 6 wire only. Sets display brightness 0-8 |
| 13 | SETBEEP Internal cmd | 6-wire only 0 – beeps once Not 0 – plays melody 4-wire only |
| 14 | SETAMBIENTF | Set the ambient temperature so virtual temperature and time to ready is accurate. |
| 15 | SETAMBIENTC | |
| 16 | RESETDAILY | Resets daily energy meter to 0 |

16) Homeassistant

From firmware version 2022-03-13 this device will register in HA by auto discovery when you connect to your MQTT broker. Go to configuration – devices – Layzspa WiFi controller and click on “add to lovelace”.



Lovelace panels:



The climate control and temperature sensors has its own unit conversion according to your general settings in HA. Switching unit only changes the pump display and the actual numbers sent over MQTT, but the lovelace translates to your preferred unit. After changing HA general unit you have to restart HA.

If you update firmware and get double entities, remove the device from HA interface and restart HA.

17) FAQ

<https://github.com/visualapproach/WiFi-remote-for-Bestway-Lay-Z-SPA/discussions>

- **Can I make my pump not turn off?**
Yes, on the Config.html page, add a command in the commandqueue to be repeated daily. E.g. Set pump 1 every 86400 s
- **How do I connect to solar panels etc?**
Uncomment the relevant code provided in main.cpp to write logic for aother pins. This needs some considerations. Some pins have special limitations.
- **Node red**
There is a folder "Code/Nodered" which contains examples.
- **Homebridge**
 - homebridge-mqttthing: see this example: [MQTT Homebridge Integration #109](#) (Thank you [@PierreBier](#))
 - homebridge-mqtt: see this nice write-up by [@chrstnmr MQTT to homebridge \(HomeKit\) for bloody beginners #106](#)
- **Home Assistant**
Device is auto discovered with a lot of entities in FW 2022-03-13 onwards.
See this example: [Home Assistant Integration - Sample #96](#)
- **OpenHAB**
[@DandeMC](#) provided this link: [openhab whirlpool](#)
- **Prometheus**
Support added by [@svanscho](#). Data retrieved at [layzspa.local/metrics](#)
- **Does this project support my home automation system not mentioned here?**
It supports all systems that can handle MQTT and JSON data. Possibly also over Web Sockets. All information about MQTT is provided in this document. How to implement it on your system – you need to seek advise by experts in your system.
- **Mqtt**
Sends status to broker every 10 minutes (configurable via web gui), and when anything has changed.
- **My blue LED blinks, should I be worried?**
It's just an LED. It has nothing to do with Wi-Fi!
It blinks whenever that particular pin is toggled. Doesn't mean anything useful.

18) If you like this project, please buy me a coffee:

[PayPal.me/TLandahl](https://www.paypal.com/donate/?url=https%3A%2F%2Fvisualapproach.github.io%2FWiFi-remote-for-Bestway-Lay-Z-SPA%2F)

Thank you!

<https://github.com/visualapproach/WiFi-remote-for-Bestway-Lay-Z-SPA>

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