

Yaha ESP8266 Weather Station

Abstract

Version 0.2 of the yaha weather station. It is currently under construction. It is already partially usable. Use PIO to compile and install it.

Features

The yaha weather station provides the following abilities:

- Control a BME280, measuring temperature, humidity and barometric pressure.
- Sends temperature, humidity, barometric pressure, wakeup-time and battery voltage to the yaha broker
- Minimizes power consumption
- Provides a web interface for configuraiton and an automatic soft-ap mode for setting up the WLAN credentials

Yaha Broker

It needs the Yaha Broker to be integrated in a home automation system. See Mangar2/yaha to install the broker.

Installation

Upload it with platformio or any other tool handling sources with "true" .cpp file (no .ino file)

Configuration

- Upload the software, than change the WLAN Access Point of your device to **YahaWeather**
- Open the Webpage in your favorite browser, <http://192.168.4.1>, no password needed
- Go to the "WLAN" submenu and enter the credentials (ssid, password) of your wlan, press submit (ignore that it looks disabled on mobile devices)
- Reset the ESP8266 with with a delay of about 0.5 seconds. The device will switch to "permanent" mode, whenever two resets with small delay are detected.
- Connect your device again with your standard WLAN. The device should be connected to this WLAN now. Open the same Webpage <http://192.168.4.1> again.
- Change any configuration you like.
- Reset the ESP once, it is now in working mode.