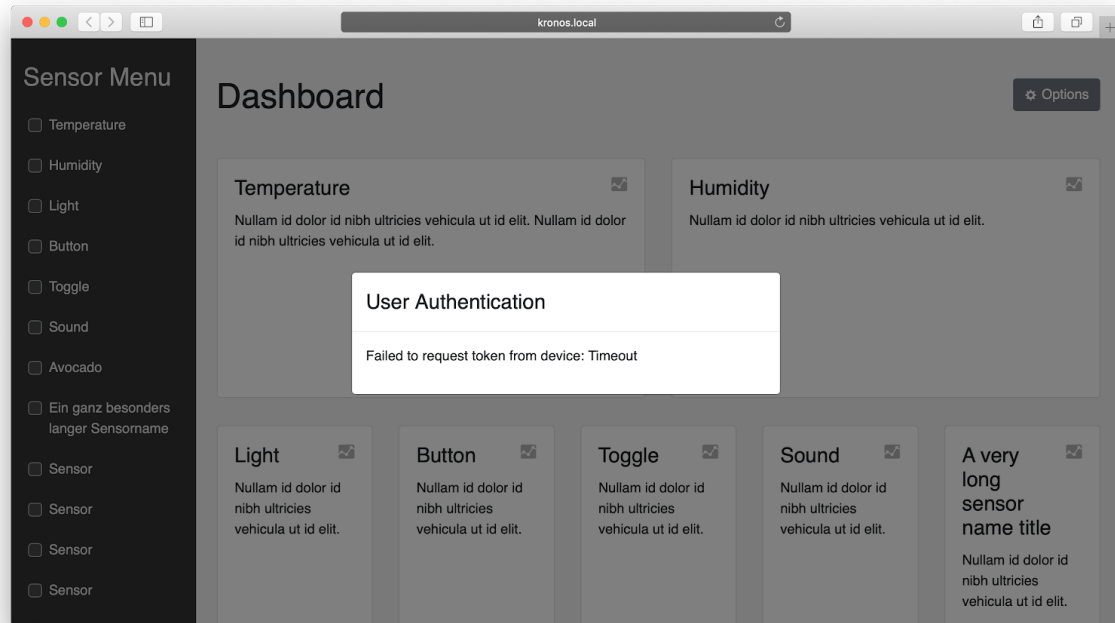
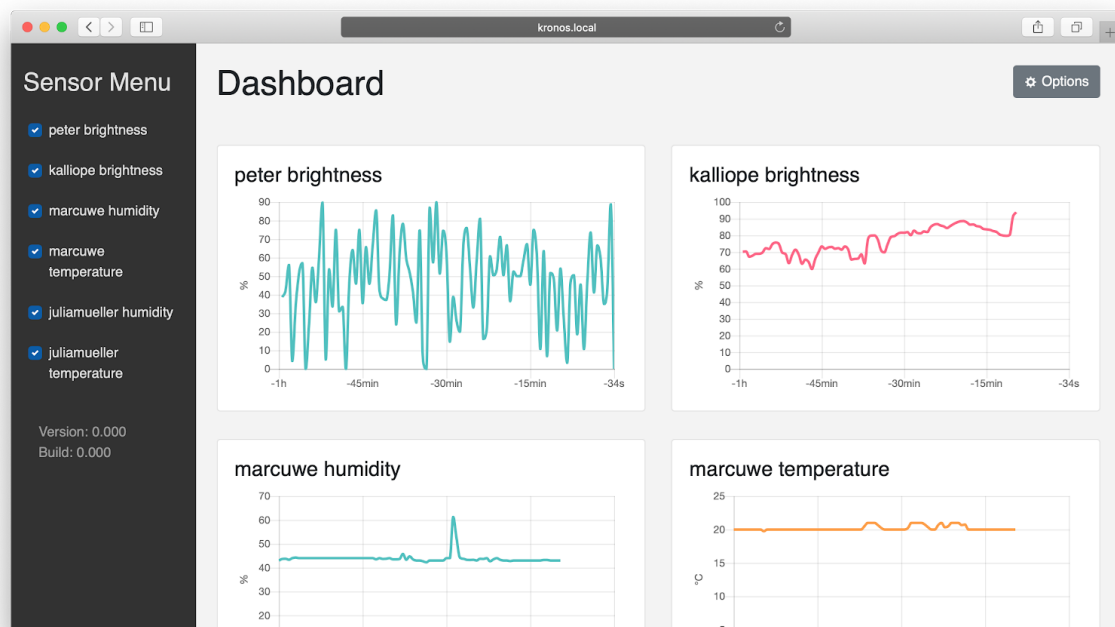


User Guide

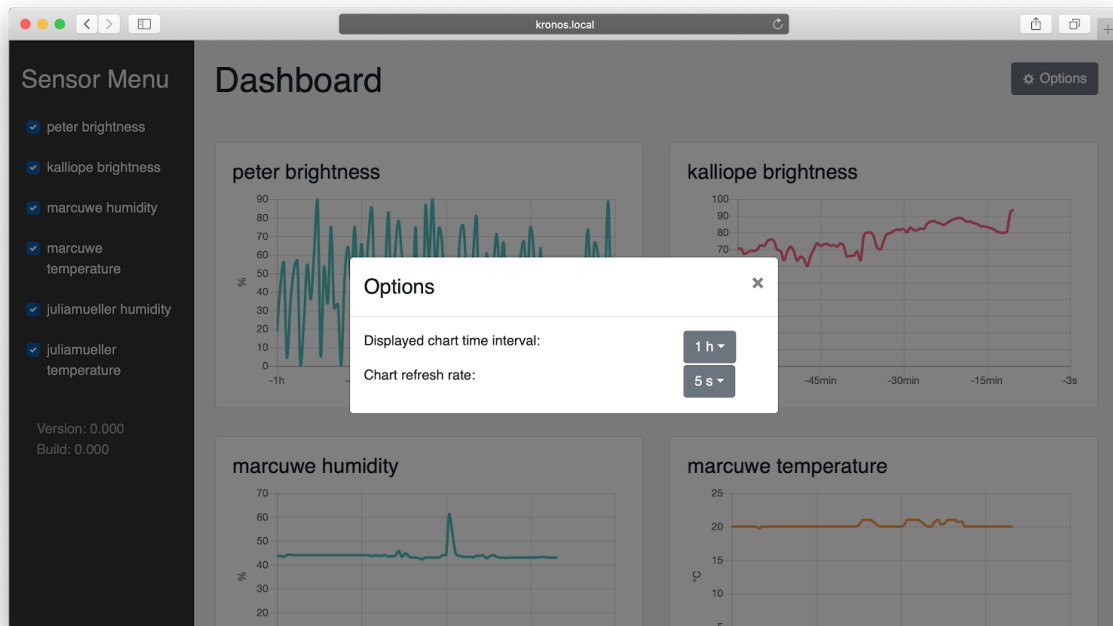
When connected to the network, the Master can be reached via `http://kronos.local`. While it is recommended to connect the device via Ethernet, it is also possible to connect wirelessly. The SSID for the provided WiFi network is “sysnet-bp” with the password “totallysecure”. Within its own WiFi hotspot, the device has the IP address 192.168.10.1.



Upon the first connection, the dashboard will not show anything. To establish a secure connection, you have to reload the Web interface and then press the physical connection button on the slave within a time frame of a few seconds. This generates a token for the client (which is in this case the browser). If the button is not pressed fast enough, there will be a timeout for security reasons.



In the left navigation bar, the user can toggle the individual data charts shown. By adding or removing the checkboxes, the charts are either shown or hidden. In the upper right corner, the user may pick options regarding the time intervals shown and the refresh rates.



The dashboard itself is not only very responsive, since it allows everything to be shown on small devices as well, but it is also highly customizable. By clicking the title bars, the user may change the name of the tile. Also, the order may be changed by dragging and dropping the individual charts around on the webpage.

Administration

To maintain the service, connect via ssh to the master. User is “pi”, password is “raspberry”.

- The binaries and configuration files are located in /home/pi.
- To see the log, enter: `journalctl -u iotserver`
- To see the service status, enter: `service iotserver status`
- To restart the service, enter: `service iotserver restart`

The communication mainly happens via the mqttbroker “Mosquitto” which is installed on the raspberry pi. To see all messages exchanged, one can connect to the pi via a MQTT client (e.G. MQTT.fx) and subscribe to all topics by subscribing to “#”.

Measurement data is stored in influxdb. The influxdb admin panel can be reached on <http://kronos.local:8888>.

Network keys for the server are stored in the config/network.json in the home directory. The server has to be restarted in order for changes to take effect.