smart.city.kempten

Software

The software is written in MicroPython (https://micropython.org), running on Raspberry Pico (2) W.

Currently the functionality is splitted to one Pico W (Inner City 2) and two Pico 2 W (Inner City 2 and Illerufer), in order to distribute the functionality to more devices and stay within the resource constraints of the Picos.

The entry point of the application is main.py.

The file setup_values.py specifies which of the three controller code bases should run on the current device by setting a `controller_number`. Furthermore it specifies the values of some timing variables and verbosity flags.

Network settings, especially for the WIFI and MQTT server, are configured in setup_mqtt_config.py. See corresponding template files.

The coding of the three controllers is located in the directory smart_city.

For documentation of the electronics of the model, including the hardware used, wiring diagrams and layouts see the document CONTROLLERS, all located in the docs directory.