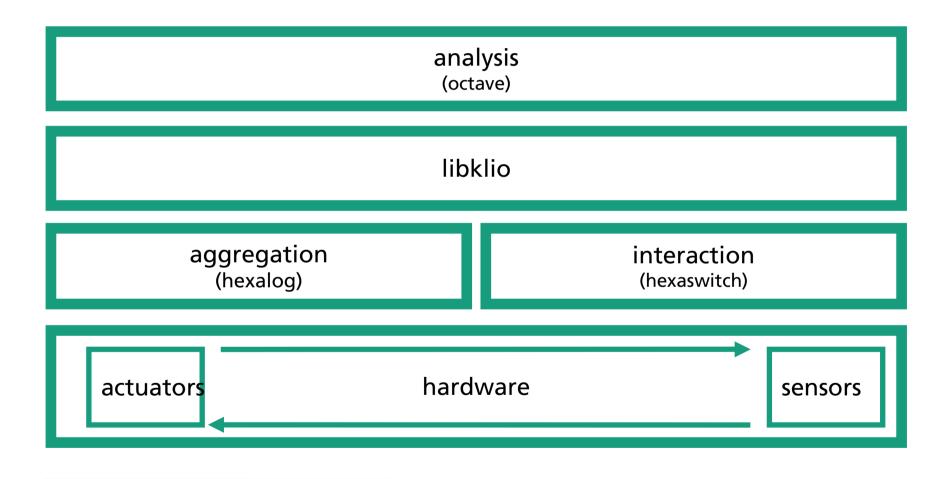
MEASURING AND DATA ANALYSIS WITH HEXABUS

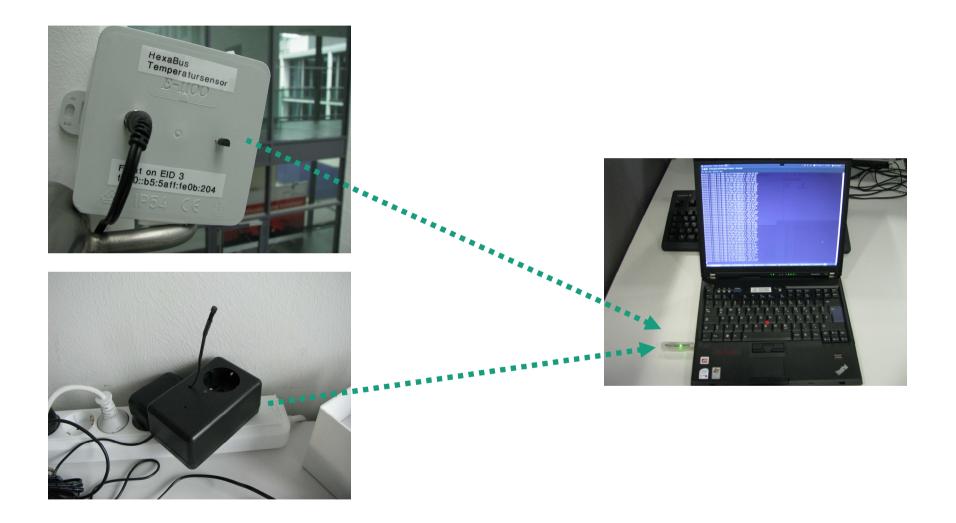


Interaction of technologies





temperature logging





air humidity sensor



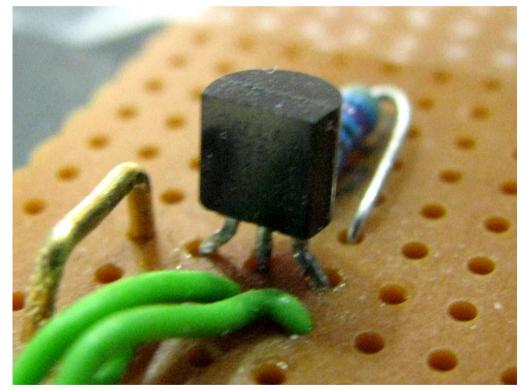


Temperature sensor Dallas DS18S20, one wire

Features:

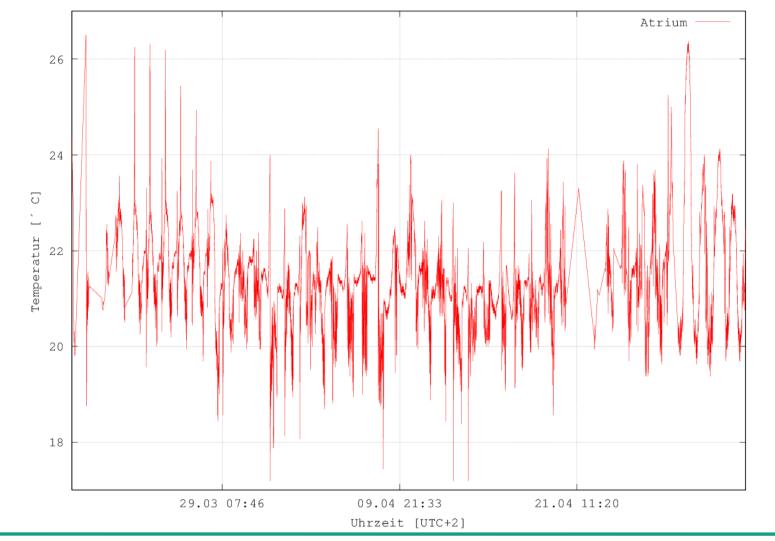
- Measuring range -55 ...125° C
- Accuracy ±0.5° C

2.40 €





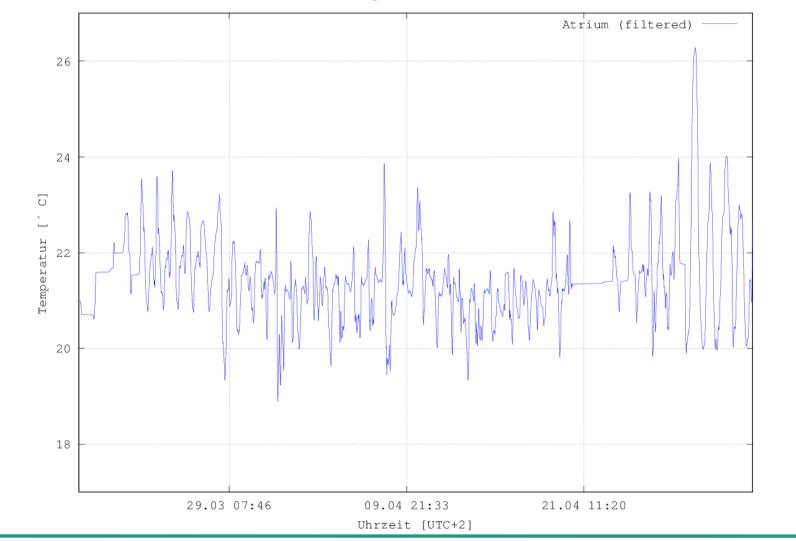
Temperature – raw data



Temperaturverlauf



Temperature – Savitzky-Golay filtered

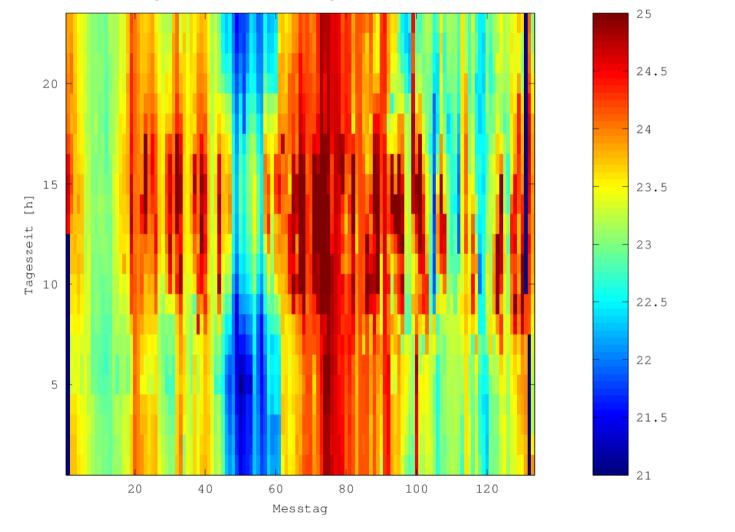


Temperaturverlauf



Temperature – heatmap

Zimmertemperaturen aller Messtage, Dominik Keller (MA1)

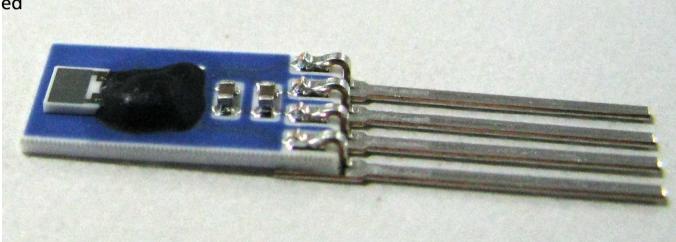




humidity sensor Hygrosens HYT-271, I2C

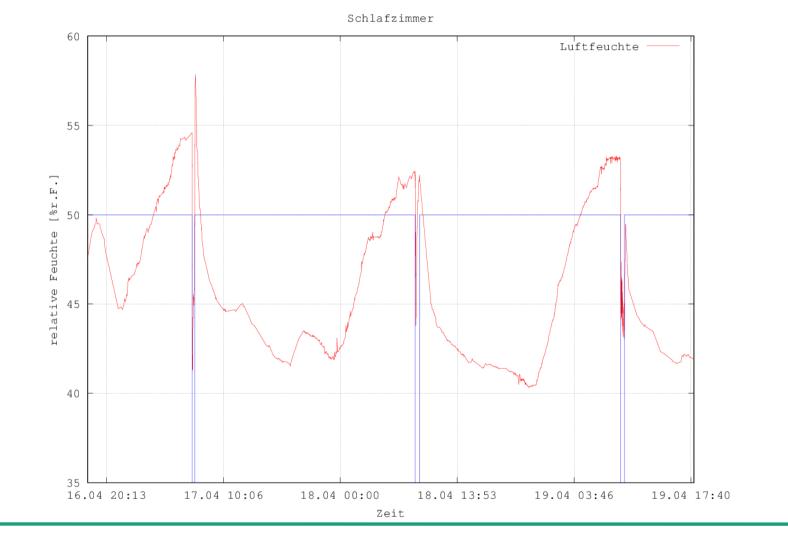
Features:

- Measuring range 0 ..100% rH
- Accuracy ±1.8% rH
- 15-30 €
- Temperature measurement included





Humidity and window





pressure sensor Bosch BMP085, I2C

Features:

- Measuring range 300..1100 hPa
- Accuracy ±0.03 hPa

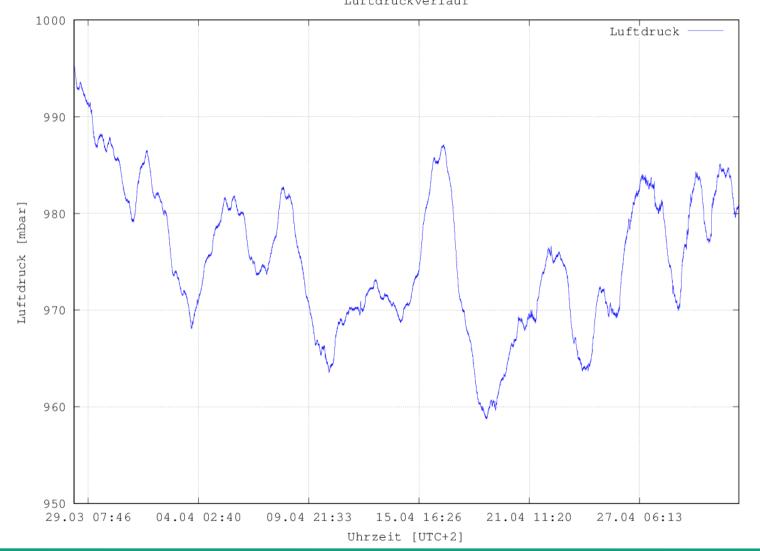
■ 20 €

Temperature measurement included





Air pressure



Luftdruckverlauf



Analyzing data with libklio Live demo

List all sensors in a database:

klio-sensor –a list –s <database>

Show infos about a particular sensor:

klio-sensor –a info –s <database> -i <sensor-id>

Show readings of a particular sensor:

klio-sensor –a dump –s <database> -i <sensor-id>

