






## LAB 02 DATA – some details:

### CUBE sensors data:

- Data from the CUBE sensors are saved according to the ID of sensors, the PDF file provides the details on the orientations during the measurements, issues with the data, and data overview







 25.05.02\_CUBE 1 (mobile).csv  
 25.05.02\_CUBE 6.csv  
 25.05.02\_CUBE ICE.csv  
 CUBE sensors - ORIENTATIONS.pdf  
 Room\_2\_Extra\_Anemometer.csv

### Notes on the data issues related to the new CUBE sensors:

- **CUBE ICE sensor:** Air speed from CUBE ICE was not recorded (it is zero in the data file). As the indoor air speed was relatively low (below 0.2 m/s, as measured with a supplementary sensor placed next to the CUBE sensor), please use the measurements (operative temp, SET) in the file without correction. If you want to see the exact measurements of the air speed, please refer to the file *"Room\_2\_Extra\_Anemometer.csv"*
- **CUBE 1 sensor:** Clo value during measurement 1 (outdoors) was still default (1 clo), we changed it to 0.5 clo after it (you can see it from the data file)

### CELLS Surface temperature data:

- The maps of the sensors (PDF files) provide the IDs of different sensors. The measurements are spread across 4 xlsx data files:

 CELLS\_Room 1\_TCs layout.pdf  
 CELLS\_Room 2\_TCs layout.pdf  
 Data 8199 2391 5\_2\_2025 08\_28\_33 1.xlsx  
 Data 8199 2391 5\_2\_2025 08\_28\_33 2.xlsx  
 Data 8199 2391 5\_2\_2025 08\_28\_33 3.xlsx  
 Data 8199 2391 5\_2\_2025 08\_28\_33 4.xlsx

- Note that the measurement data starts from row 63
- You should look for the headings with the ID of the interested sensors. Some sensors might have abnormal values, those sensors do not work.

### How to read out temperature data from the FLIR images:

Install the software called **Thermal STUDIO** with a **starter license**. Instructions on how to install it:

[https://flir.custhelp.com/app/answers/detail/a\\_id/4690/~flir---thermal-studio-starter-license](https://flir.custhelp.com/app/answers/detail/a_id/4690/~flir---thermal-studio-starter-license)

# FLIR - Thermal Studio Starter License

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## How can I get a Thermal Studio Starter License?

To get a Thermal Studio Starter License follow these steps:

1. Go to [FLIR.com](https://flir.com) and log in/sign up.
2. Click on the magnifier glass icon and search for Thermal Studio Suite.
3. On the product page and click "**Select and Compare Plans**".
4. Choose the Thermal Studio Starter option.
5. Fill in the information requested .
6. Click on "**Submit**".
7. You'll receive an email with the license and link to download within the next 20 minutes.

If you're have issues receiving the license feel free to reach out Technical Support team by creating an incident [here](#).