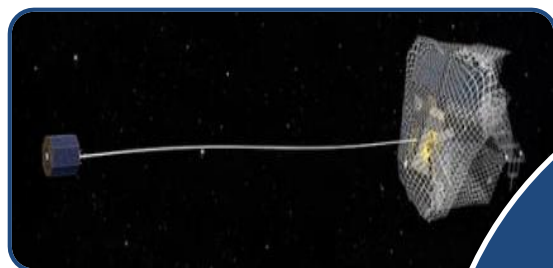


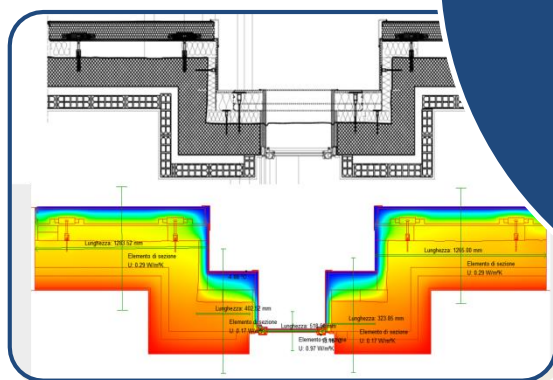
A successful high tech company established in 1997 in Genova



Space



Automation
& Robotics

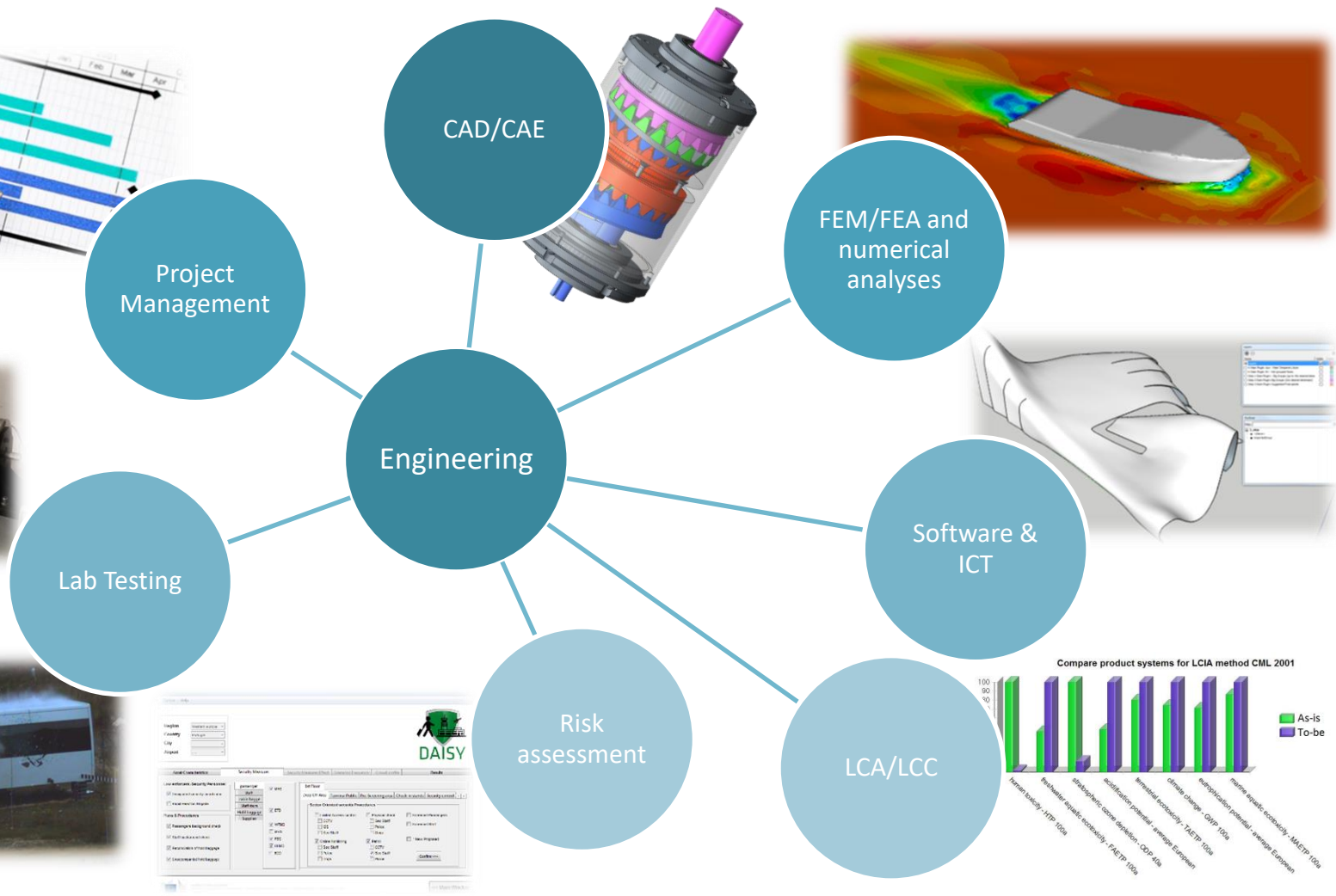


Energy
&
Environment

Security &
Transport



with a significant experience in EC projects since FP4 until H2020.





Stam has achieved outstanding results, such as: a number of patents, a testing laboratory for special machinery, and the successful completion of over 200 projects in collaboration with more than 400 customer and partners.

Stam invests a significant part of its turnover in R&D, thus providing its customers with most qualified and edging competencies to drive development based on availability and affordability of technological trends.

Stam is active since 1999 in the Technology Transfer Programme of the European Space Agency and it is a member of the ECTP-E2B Association.



*Ministero dell'Istruzione
dell'Università e Ricerca*



REGIONE LIGURIA





THERMOSS

- Development of a system that operates a data-validation and check of the data stored in the THERMOSS cloud
- Development of a checking routine on the data gathered in England and Spain.

**Almost 1600 channels
&
150.000 single data each day**

Temperature

Humidity

Flow rate

Energy flow rate

Negative energy accumulator

Net energy accumulator

Positive energy accumulator

Solar radiation

Wind direction

Wind speed

External return temperature

External supply temperature

Domestic hot water flow

Check for each sensor:

- Min and max values
- Constant values
- Variation

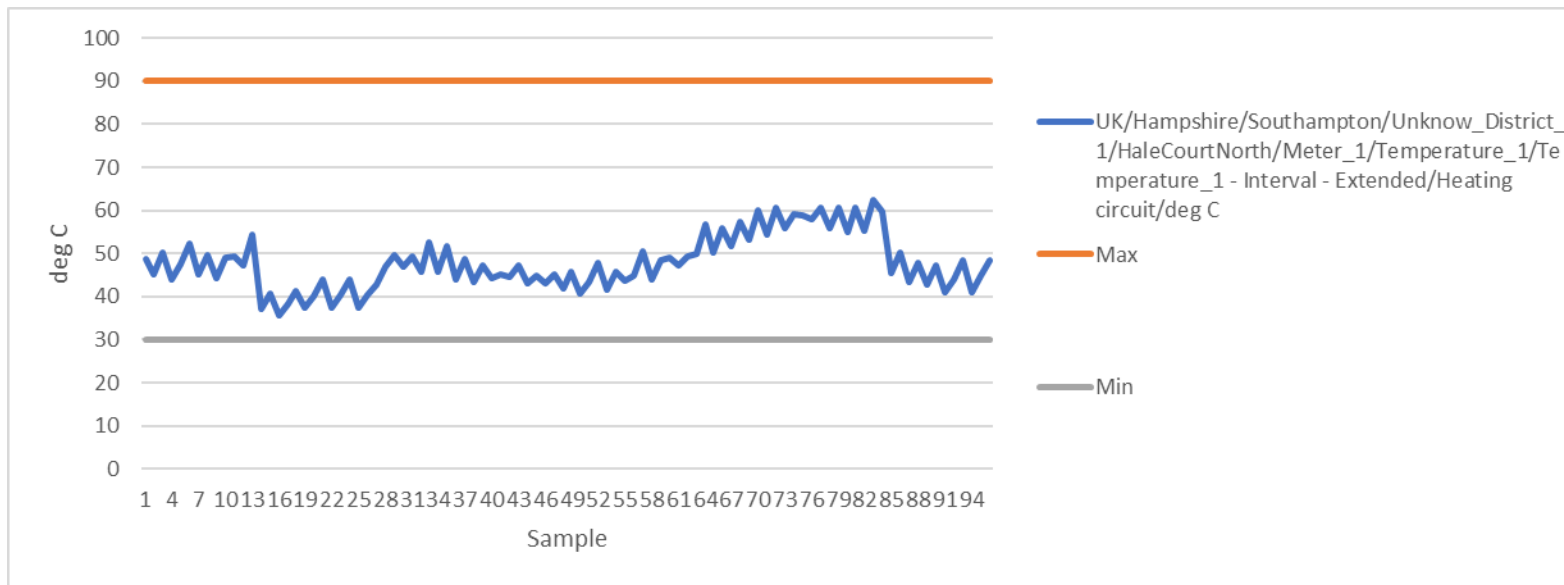
Data rating

0 = Reliable data

1 = Possibly corrupted data

2 = Data is corrupted

Example of a signal (UK)



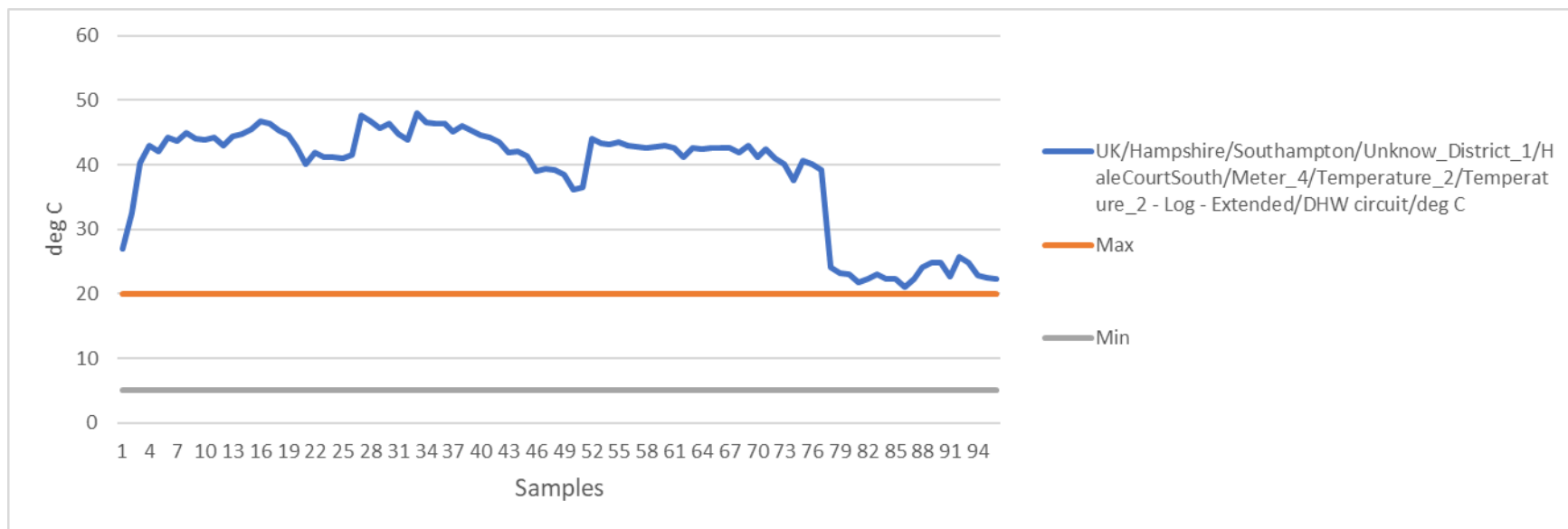
Frequency = 1 sample each 15 minutes

Rating = 0 (ok)

Signal with:

- respected limits
- not big variations
- no constant values

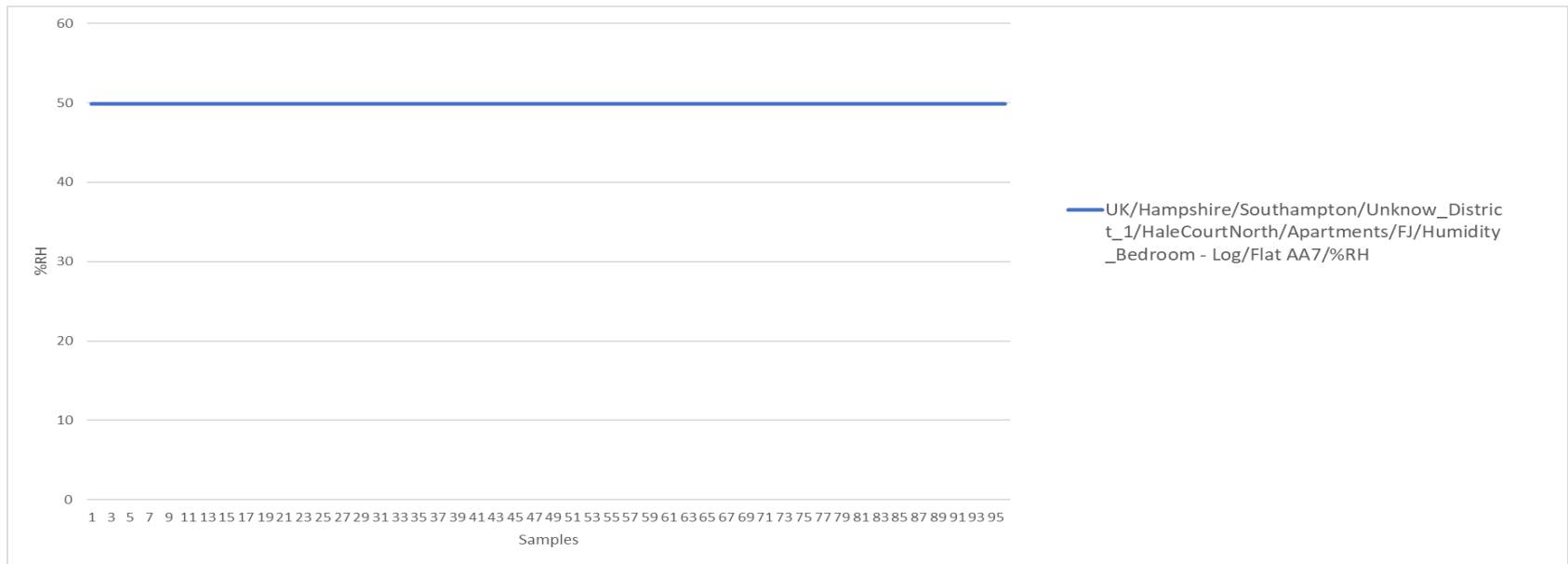
Check: max and min values



Frequency=1 sample each 5 minutes

Rating = 1 (warning)

Check: constant values

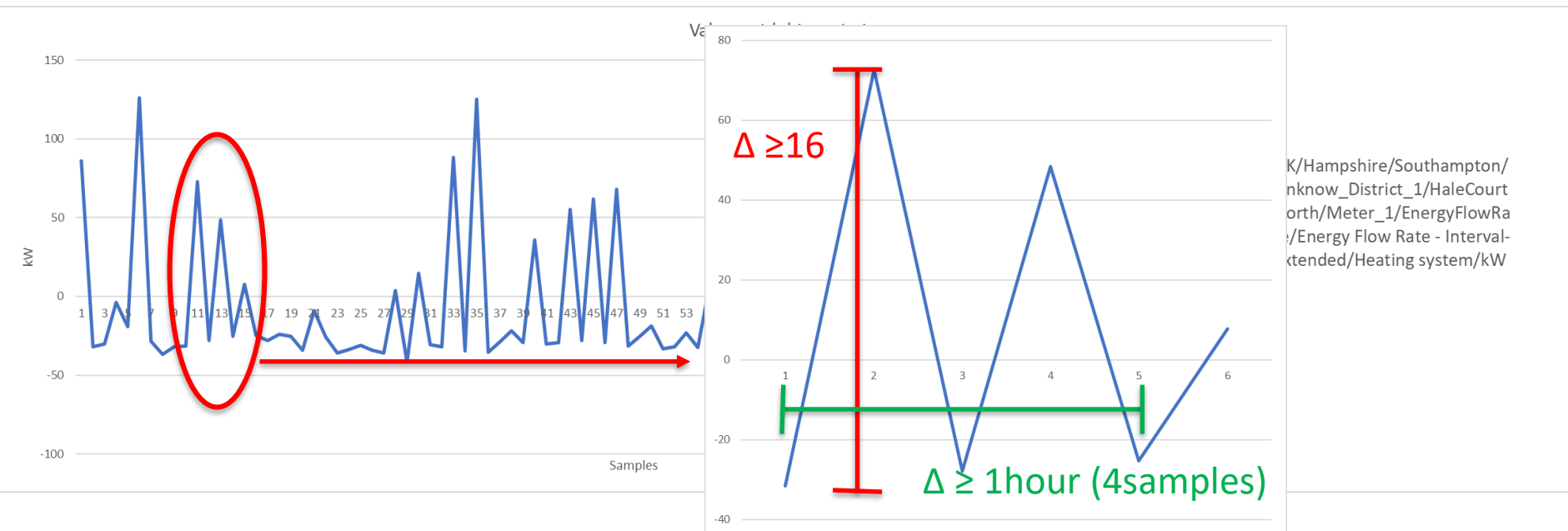


Frequency = 1 sample each 5 minutes

Rating = 1 (warning) if constants values are between 3 and 6 hours

Rating = 2 (not ok/error) if constants values are more than 6 hours

Check: variation



Frequency = 1 sample each 15 minutes

Rating = 2 (not ok/error) if the variation is greater than 16 for a minimum of 1 hour