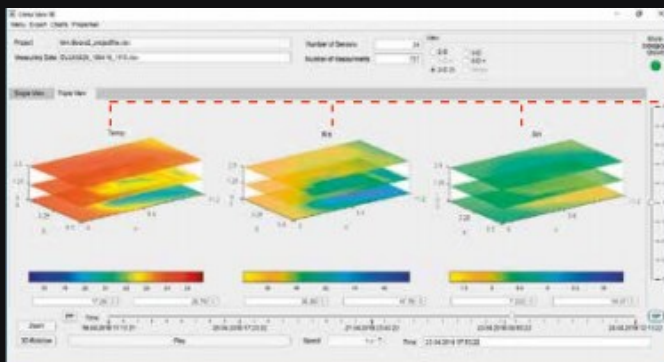


# THG® SleepView – visualizes Climate comfort



Recording of the humidity production of a human being on a mattress.  
Perspiration = attempt to cool .

## THG® SleepView

An optimal balance between heat and humidity is a crucial aspect for comfort in sleep environments. Climate in this light is rather an area related aspect than punctual. THG *SleepView* provides insight into the real heat/humidity interaction between human and laying area.

**A THG *SleepView* mat measures and visualizes the live microclimate development at the human/textile interface.**

### Product features:

- Simple handling
- Highly reliable technology
- Very short setup time
- PC independent usage
- Stationary use with PC
- Live visualization of the whole body area (without head)
- USB, CAN interfaces
- Proven technology in various industry sectors (THG *AreaView*)

### Fields of application:

- Climate measurement in sleep environments and laying areas
- Detection of heat and humidity transportation within products
- Optimization of heat and ventilation cycles
- Development of intelligent climate algorithms
- Comparison of the climate features of various materials
- Measureable presentation of “perceived” heat conditions



THG *SleepView* with 45+1 sensors

### All THG *AreaView* products:

- *SeatView* (seating)
- *SleepView* (laying areas)
- *BodyView* (several layers, body)
- *HeadView* (head protection)

We also offer SWEATOR technology for the simulation of the thermoregulation Information upon request.

SWEATOR-TORSO

SWEATOR-SKIN

SWEATOR-HEAD

SWEATOR-FOOT



We'd be pleased to talk to you.

# THG<sup>®</sup> SleepView – Technical overview



|                       | <i>SleepView 45+1</i>                | <i>SleepView 31+1</i>                |
|-----------------------|--------------------------------------|--------------------------------------|
| Area                  | 170 x 70 cm                          | 50 x 50 cm                           |
| Sensors               | 45 + 1                               | 31 + 1                               |
| Data Output           | T, RH, AH, t                         | T, RH, AH, t                         |
| Fields of application | Sleep, laying areas, medical devices | Sleep, laying areas, medical devices |

## General technical data:

### Relative Humidity (RH)

|                    |                             |
|--------------------|-----------------------------|
| Measurement range: | 0 – 100 % RH, fully dewable |
| Accuracy:          | +/- 2 % RH to 3 % RH        |
| Resolution:        | 0,01 % RH                   |
| Hysteresis:        | +/- 0,5 % RH                |
| Response time:     | < 4 sec                     |

### Temperature (T):

|                    |   |
|--------------------|---|
| Measurement range: | -40° C - + 120° C   |
| Accuracy:          | -40° C – 0° C +/- 1,5° C<br>0° C – 40° C +/- 0,3° C<br>40° C – 80° C +/- 0,5° C |
| Resolution:        | 0,1° C  |
| Hysteresis:        | +/- 0,2° C  |
| Response time:     | < 30 sec  |



### Data logger (may vary):

|                   |   |
|-------------------|---|
| Size:             | ca. 106 x 57 x 22 mm  |
| Weight:           | ca. 95 g  |
| Storage capacity: | ca. 1,5 mil values  |
| Interface:        | USB 2.0, CAN  |
| Energy:           | LI-IO 3.7 VDC/1200 mAh<br>upload max. 500 mA, demand < 1 mA |
| Protection class: | IP 64   |

### System requirements:

|                      |                         |
|----------------------|-------------------------|
| Platform:            | IBM compatible PC       |
| OS:                  | up to Win 7, 64 bit     |
| Additional Software: | MS Excel 2000 or higher |