

# THEYE

## Compact Bluetooth module for secure temperature and humidity recording

Typical applications:

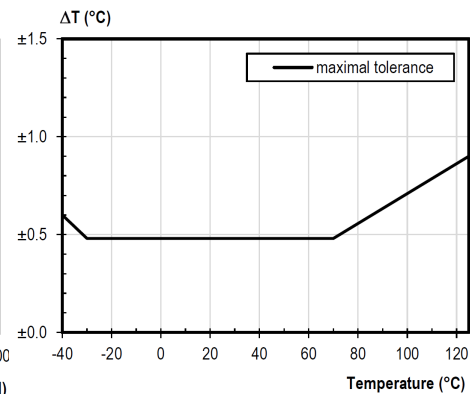
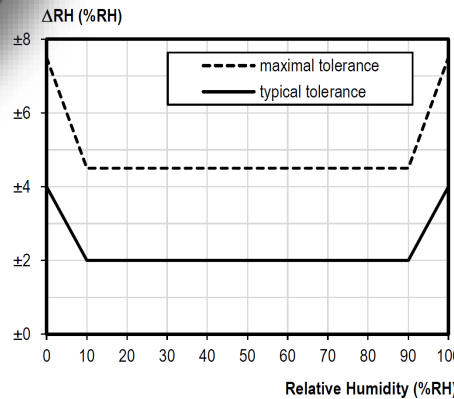
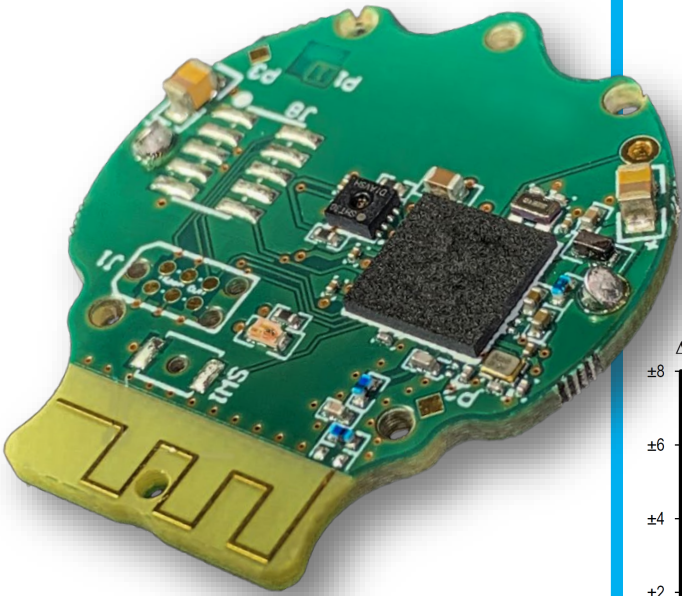
- Cold chain monitoring (food, ...)
- Transport of precious objects
- ...

### Humidity

- Range: typ 10 to 90 %
- Accuracy: typ  $\pm 2.0\%$
- Max  $\pm 4.5\%$  between 10% and 90%,  $\pm 7.5\%$  outside of this range

### Temperature

- Range: typ  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- Accuracy: typ  $\pm 0.3^{\circ}\text{C}$
- Max:  $\pm 0.48^{\circ}\text{C}$  between  $-30^{\circ}\text{C}$  and  $70^{\circ}\text{C}$ ,  $\pm 0.9^{\circ}\text{C}$  outside of this range



### Dimensions / Battery

- Diameter: 31.8mm
- Height: 38mm
- Thickness: 11.5mm
- Button cell: CR2450

### Autonomy / Consumption

Consumption:

- $\sim 5.2\mu\text{A}$  in standby (with an ad every 5 seconds)
- +  $8.4\mu\text{As}$  for each measurement

Autonomy (with a 540mAh battery):

- 3.5 years with one measurement/ second
- 8 years with one measurement/ 10 seconds

Amount of recordable values:

(Temperature sur 11 bit, res  $0.09^{\circ}\text{C}$  / Humidity on 11 bit, res 0.06%):

- 174'000 Temperature / Humidity
- ➔ Autonomy of 120 days with one measurement per minute

Operating temperature:

- $-40^{\circ}\text{C}$   $+70^{\circ}\text{C}$

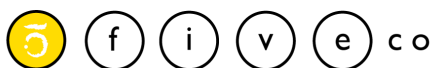
### Communication

- Bluetooth 5 LE

### Application

Secure application for recording temperature and relative humidity data

« THEYE Controller » available for download on :



innovative engineering

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