

Compact Bluetooth® module for secure temperature and humidity recording

ref : THEye TH-2 T-EXT.Lx

Typical applications :

- Transport and storage of perishable goods (food, wine, tobacco, etc.)
- Transport of sensitive goods (medical, biological, etc.)
- Storage of precious objects (furniture, paintings, instruments, etc.)
- Wireless measurement in sealed containers (laboratories, R&D, etc.)

External sensor temperature PT1000

Range : -85°C to +115°C

Precision : Typ. $\pm 0.1^\circ\text{C}$
Max. $\pm 0.15^\circ\text{C}$ (0°C)
Max. $\pm 0.3^\circ\text{C}$

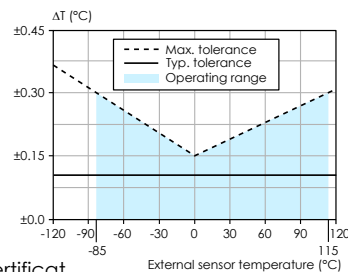
Resolution : 0.01°C

Drift : $< 0.01^\circ\text{C}/\text{an}$

Adjustment upon request including calibration certificat

→ Max. Accuracy: $\pm 0.15^\circ\text{C}$ (-85°C – 115°C)

Resistance : -190°C to +200°C



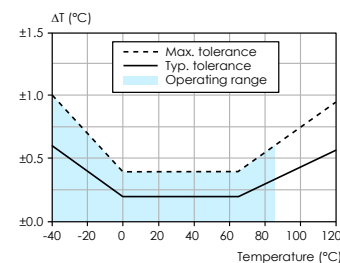
Sensor module temperature

Range : -40°C to +85°C

Precision : Typ. $\pm 0.2^\circ\text{C}$
Max. $\pm 0.4^\circ\text{C}$ (0°C – 65°C)
Max. $\pm 1.0^\circ\text{C}$ (<0°C, >65°C)

Resolution : 0.09°C

Drift : $< 0.03^\circ\text{C}/\text{an}$



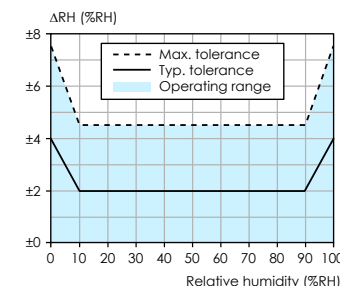
Sensor module humidity

Range: 0% to 100% RH

Precision : Typ. $\pm 2.0\%$
Max. $\pm 4.5\%$ (10% – 90%)
Max. $\pm 7.5\%$ (<10%, >90%)

Resolution : 0.06%

Drift : $< 0.25\% \text{RH}/\text{an}$



Battery / Standards / Variants

- Button cell : CR2477 non replaceable
- IP67, CE
- Cable length :
 - 1m : THEye TH-2 T-EXT.L1
 - 2m : THEye TH-2 T-EXT.L2
 - 3m : THEye TH-2 T-EXT.L3

Battery life

- 8 years with one measurement every 10 seconds
- -25% if the module temperature is $< -20^\circ\text{C}$

These calculations assume two 1-minute connections per week.

Recording capacity :

- Min. 100'000 Temperature / Humidity point
- 70 days history with one measurement per minute

Operating temperature :

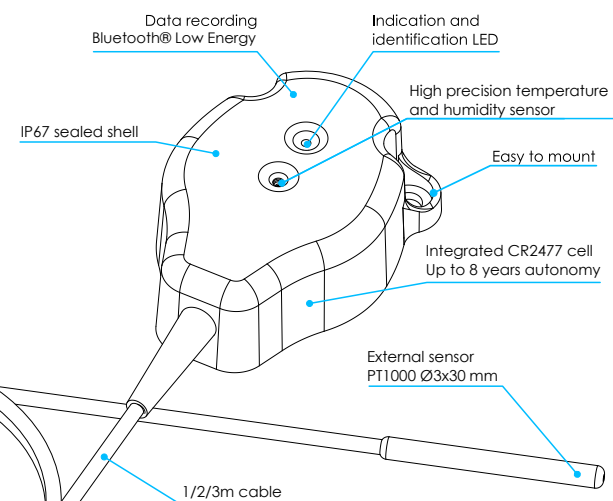
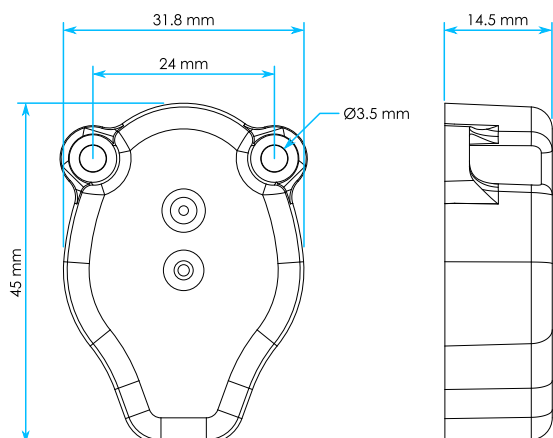
- External sensor : -85°C to +115°C
- Sensor module : -40°C to +85°C

Communication

Bluetooth® 5 LE

Application

Secure application for temperature and humidity graphs
« THEye Controller » available for download.



by FiveCo