

by FiveCo

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Compact Bluetooth® module for secure temperature and humidity recording With calibration certificate

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.)

ref : THEye TH-2 EXT

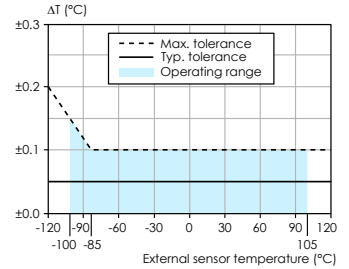
External sensor temperature

Range : -100°C à +105°C

Precision : Typ. $\pm 0.05^\circ\text{C}$
Max. $\pm 0.10^\circ\text{C}$ (85°C – 105°C)
Max. $\pm 0.15^\circ\text{C}$ (<85°C, >105°C)

Resolution : 0.01°C

Drift : <0.03°C/an



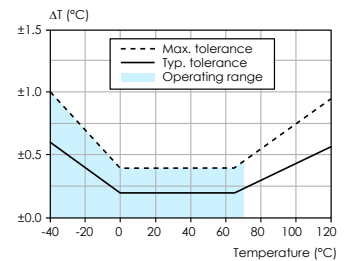
Sensor module temperature

Range : -40°C à +70°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 : 0.01°C

Drift : <0.03°C/an



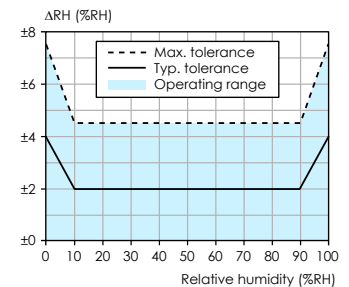
Sensor module humidity

Range: 0% à 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%RH/an



Dimensions / Battery / Standards

- Width : 31.8mm
- Length : 38mm
- Height : 11.5mm
- Button cell : CR2450 non replaceable
- IP 68, CE

Autonomy

Autonomy (with a 540mAh battery) :

- 3.5 years with one measurement per second
- 7 years with one measurement every 10 seconds

Recording capacity :

Temperature on 11bit, res 0.09°C / Humidity on 11bit, res 0.06% :

- Min. 172'000 Temperature / Humidity points.
→ 120 day history with one measurement per minute.

Operating temperature :

- External sensor : -100°C +105°C
- Sensor module : -40°C +70°C

Communication

Bluetooth® 5 LE

Application

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

