FEBRIS GENERAL DESCRIPTION

OVERVIEW

Febris is a smart, wireless sensor series from Sentinum for monitoring indoor air quality and ambient conditions. Depending on the model, it measures CO_2, temperature, humidity, air pressure or surface temperatures. LEDs and a buzzer warn if limit values are exceeded. The data is transmitted energy-efficiently via MIOTY®, NB-IoT or LoRaWAN®. A double tap triggers an instant measurement. Powered by 4x AA batteries, easily replaceable. Wall mounting recommended, but can also be placed on tables or cabinets.

MAIN FEATURES

The Febris sensors from Sentinum offer precise and reliable monitoring of indoor air quality and ambient conditions. Depending on the model, they record various parameters: The Febris CO_2 measures the CO_2 concentration using reliable NDIR technology and also records temperature, humidity and air pressure. The Febris SCW is equipped with a surface thermometer to specifically determine surface temperatures while simultaneously measuring temperature and humidity. The Febris TH focuses on temperature and humidity measurements for applications where these values are of primary importance. In addition, a VOC sensor is optionally available for the Febris CO_2, which detects volatile organic compounds and thus enables an even more comprehensive air quality analysis.

To ensure a direct and intuitive warning, all models are equipped with LEDs and a buzzer that give visual and acoustic signals when limit values are exceeded. In addition, the double-click function enables immediate measurement on demand. The sensors can be easily configured via NFC and downlinks, allowing them to be conveniently adapted to individual requirements.

For reliable and energy-efficient data transmission, the Febris range supports MIOTY®, NB-IoT and LoRaWAN®, enabling seamless integration into existing IoT systems. The devices can be mounted flexibly - wall mounting is recommended, but they can also be easily placed on tables or cabinets. Power is supplied by four AA batteries, which are easily replaceable and enable long-term use without frequent maintenance.

FUNCTIONS OF THE DIFFERENT VERSIONS

Sensor	CO2	SCW	TH
CO₂	✓		
temperature	✓	✓	✓
tel. humidity	✓	✓	✓
air pressure	✓		
tap	(✓)	(✓)	(✓)
VOC	(✓)		
surface thermometer (e.g. mold prevention)		✓	

(✓) optional, ✓ vorhanden

SCOPE OF DELIVERY

- Sensor
- 4x Batteries (or formerly with mains adapter)

APPLICATION EXAMPLES

The versatile measurement functions of the Febris sensor series open up numerous application possibilities, including:

- Offices and home offices - monitoring CO_2, temperature and humidity to create a healthy and productive working environment.
- Schools and nurseries - Ensuring good air quality by measuring CO_2 and controlling temperature and humidity for a comfortable learning environment.
- Living spaces and smart homes - Automatic control of heating, ventilation and air conditioning systems by measuring temperature, humidity and air pressure.
- Healthcare and nursing homes - Monitoring humidity and temperature to prevent mold growth and improve the indoor climate for sensitive people.
- Gastronomy and hotels - Ensuring optimal air quality in guest rooms and dining areas by measuring CO_2, VOC and temperature.
- Gyms and sports facilities - monitoring temperature and humidity for a comfortable workout experience and measuring CO_2 to optimize ventilation.
- Warehouses and production facilities - monitoring temperature, humidity and air pressure to protect sensitive goods and machinery
- Museums and archives - monitoring humidity and temperature to preserve sensitive works of art, books and historical documents.
- Kitchens and food processing - monitoring the temperature of surfaces and humidity to ensure hygienic conditions.