

FEBRIS CO2 TECHNICAL DATASHEET



Febris is a smart, wireless sensor from Sentinum for intelligent buildings. It regularly measures CO₂, temperature, humidity and air pressure and warns if limit values are exceeded. Data is transmitted via MIOTY®, NB-IoT or LoRaWAN®. An optional VOC sensor is available. Powered by 4x AA batteries, easily replaceable. A double tap triggers an instant measurement. Wall mounting recommended, but can also be placed on tables or cabinets.

VERSIONS

ARTIKEL CODE	FEATURES
S-FEBR-LOEU-CO2	Febris LoRaWAN, accelerometer, CO ₂ ppm, air pressure, relative humidity, temperature
S-FEBR-MIOTY-CO2	Febris Mioty, accelerometer, CO ₂ ppm, air pressure, relative humidity, temperature
S-FEBR-NB-CO2	Febris NB-IoT, accelerometer, CO ₂ ppm, air pressure, relative humidity, temperature



PRODUCT FEATURES AND AREA OF APPLICATION

FEATURE	VALUE	UNIT
Dimensions lxxh	86x86x25	mm
Weight	148	g
Operating temperature	+10 to +50	°C
Storage temperature (recommended)	0 to +50	°C
Rel. Humidity during operation	5 to 80	%
IP rating	IP 21	
Sensors	CO ₂ , VOC, temperature, rel. humidity, air pressure	
Traffic light function	Yes, LEDs (green, orange and red)	
Audible alarm function	Yes, buzzer	
Provisioning	NFC	
Material	ABS	
NFC antenna	Integrated	
RF antenna	Integrated	
Accelerometer	Optional	
Batteries	Interchangeable	
Primary cell type	4 x 1.5V (recommended Energizer ultimate Lithium) or 4 x 1.5V (Alkaline recommended VARTA Longlife Power)	

CONNECTIVITY AND RF SPECIFICATION

FEATURE	VALUE	UNIT
RF standards		MHz
Frequency LoRaWAN®/Mioty® EU	868	MHz
Frequency cellular	Band 8, 20 (900 MHz, 800MHz)	
Transmission power LoRaWAN®/Mioty® EU	14	dBm
Transmission power NB-IoT	23	dBm
LoRa® mac layer version	1.0.2	

SENSOR SPECIFICATION TEMPERATURE SENSOR

FEATURE	VALUE	UNIT
Measuring range	-40 to +125	°C
Drift (long-term)	<0,02	°C/year
Accuracy	+/-0,2	°C
Resolution	0,1	°C
Repeatability	0,2	°C

SENSOR SPECIFICATION REL. HUMIDITY

FEATURE	VALUE	UNIT
Measuring range	0 to +100	%RH
Drift (long-term)	<0,25	%RH/year
Accuracy	+/-0,2	%RH
Resolution	1	%RH
Repeatability	0,1	%RH

PRESSURE SENSOR SPEZIFIKATION

FEATURE	VALUE	UNIT
Measuring range	300 to 1200	mBar
Drift (long-term)	+/-1	mBar/year
Accuracy	+/-1	mBar
Resolution	0,1	mBar

TECHNICAL DRAWING SENSOR AND WALL BRACKET

