

Comfort & Indoor Air Quality

CO₂, Temperature, and Ambient Humidity Sensor

TX CO₂ T&H AMB 600-053



- Measurement of indoor air quality
- LED indicator for CO₂ concentration
- Compatible with LoRaWAN & proprietary LoRa
- High-capacity type C battery
- Up to 10 years of battery life
- Very long radio range



Technical Specifications

Physical Characteristics

Protection rating	IP40
Mounting	Wall-mounted via screws or 3M (provided with the sensor)
Operating temperature	- 20 / + 55°C
Power supply	3.6V Lithium C-type battery - Replaceable battery USB power supply possible (USB-C)
Battery life	2 years for transmission every 30 minutes (SF9)
CO ₂ LED	Adjustable LED display thresholds according to ppm levels
Detachment detection	Accelerometer

Radio

Supported protocols	LoRaWAN (Class A) and Enless proprietary LoRa
Frequency	EU868
Addressing	LoRaWAN = DEVEUI, APPEUI, APPKEY (OTAA) Enless proprietary LoRa = Enless LoRa ID
Encryption	LoRaWAN = AES128 Enless proprietary LoRa = No encryption
Transmission power	25mW (14 dBm)

Measurements

CO2

CO2 measurement range 0 - 5000 ppm

CO2 measurement accuracy +/- 50 ppm

Temperature

Sensor measurement range -40 / + 125°C

Sensor accuracy +/- 0,2°C

Sensor resolution 0,1°C

Humidity

Sensor measurement range 0 - 100% rH

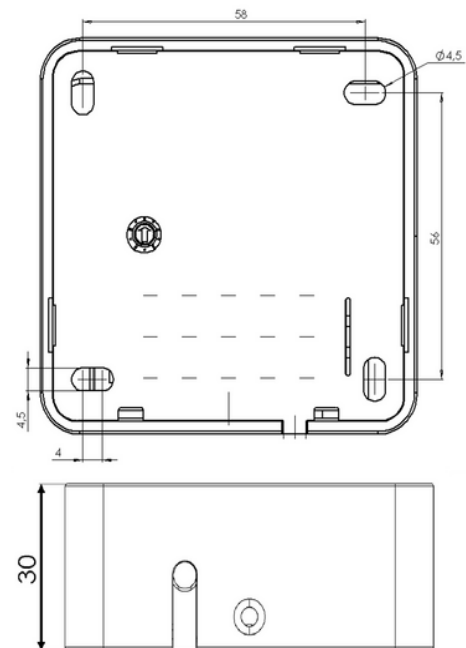
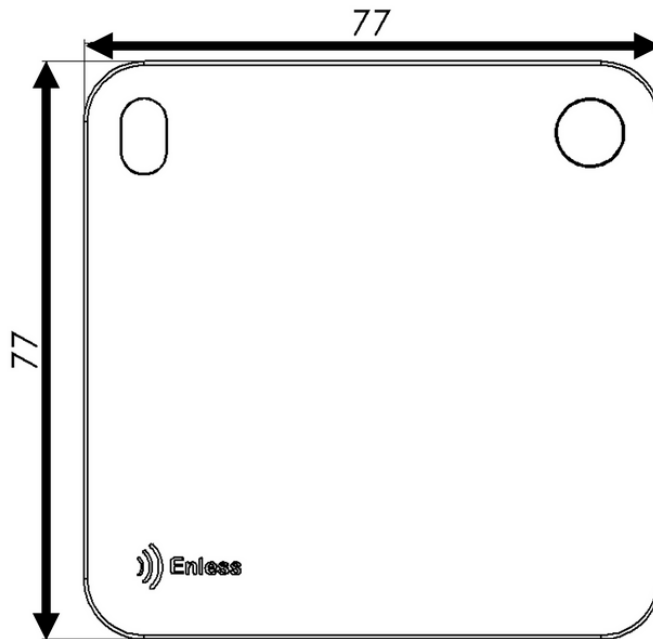
Sensor accuracy +/- 2% rH

Sensor resolution 0,1% rH

Certifications



Dimensions (mm)



V 2.0