



senzemo

Portfolio

Empowering society with cutting-edge IoT
sensors for a resource-efficient and
sustainable world.

Our mission

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Indoor Microclimate



Indoor Microclimate LoRaWAN sensor, SMC30 collects data for temperature, relative humidity, and air pressure.



NEW
UPDATE

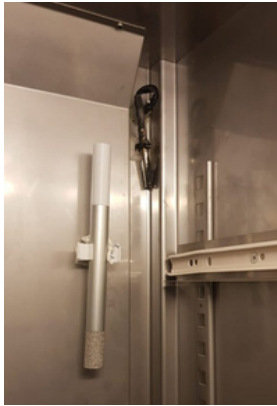


Features

Indoor use · Temperature, relative humidity and air pressure · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP65 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS)

SMC30 updated version now features also:

- Data logging (up to 7 days)
- Magnet-based reset
- LED Status Indicator



Tech specs

Temperature: Range -40°C to +65°C; Accuracy $\pm 0.2^\circ\text{C}$ ·
Relative Humidity: Range 0% to 100%; Accuracy $\pm 1.8\%$ ·
Atmospheric pressure: Range 880 to 1080 hPa; Accuracy ± 1 hPa · Accelerometer: Range ± 2 g to ± 16 g; Accuracy ± 40 mg · Dimensions: 18 mm x 210 mm

Applications

Harsh industry · HVAC · Cold chain management ·
Temperature-controlled supply chain · Museums ·
Data centers · Smart buildings · Energy audits ·
Precision agriculture



Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz
(all frequencies available)

Power supply

Powered by 2x AAA batteries (up to 7 years)

Data sheet



Outdoor Microclimate



Outdoor Microclimate LoRaWAN sensor with shield,
SMC30-OUT measures temperature,
relative humidity, and air pressure.



NEW
UPDATE

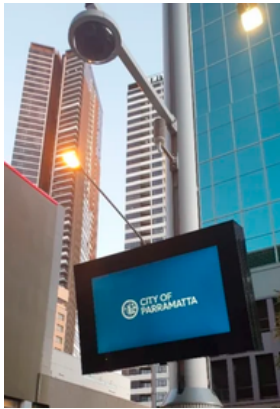


Features

Outdoor use · Temperature, relative humidity and air pressure · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP65 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS)

SMC30-OUT updated version
now features also:

- Data logging (up to 10 days)
 - Magnet-based reset
 - LED Status Indicator



Tech specs

Temperature: Range -40°C to +65°C; Accuracy $\pm 0.2^{\circ}\text{C}$ ·
Relative Humidity: Range 0% to 100%; Accuracy $\pm 1,8\%$ ·
Atmospheric pressure: Range 880 to 1080 hPa;
Accuracy ± 1 hPa · Accelerometer: Range ± 2 g to ± 16 g;
Accuracy ± 40 mg · Dimensions: 18 mm x 210 mm

Applications

Smart cities · Agriculture Energy audits · Thermal comfort · Environmental, animal conservation and preservation · Research projects

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz
(all frequencies available)

Power supply

Powered by 2x AAA batteries (up to 7 years)



Data sheet



Soil Moisture



SSM40 is a reliable Soil Moisture LoRaWAN sensor optimizing irrigation in agriculture and smart parks.



Features

Outdoor use · Soil moisture measurements · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS) · Sensors sends data completely submerged underground



Tech specs

Operating temperature range -40°C to +85°C · 75Mhz capacitive sensor · 0.5 m/1,5 m/5 m cable · Probe dimensions: 20x140mm · IP68 rating · Senstick dimensions: 105x27mm · Also available with Meter EC-5 soil probe



Applications

Monitoring soil moisture · Agriculture, Smart Cities, parks, vineyards, golf courses, wildlife preservation · Automated irrigation system: Greenhouses, Urban agriculture, Green roofs



Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3.6V lithium battery (up to 7 years)

Data sheet



Ambient



Ambient sensor **SAM20** monitors temperature, humidity and air pressure to protect storages and reduce energy waste.



Features

Indoor use · Temperature measurements · Humidity measurements · Air pressure measurements · High and Low parameter alarm values · Sensor manipulation alert · Battery level feedback · NFC and Over The Air Reconfiguration · Standardized sensor enclosure · IP20 rated · Easy installation and integration · Customizable settings · Up to 7 years of battery life · LoRaWAN ready

Tech specs

Temperature: Range 0°C to +50°C; Accuracy $\pm 0.2^\circ\text{C}$ ·
 Relative humidity: Range 0% to 100%; Accuracy $\pm 1.8\%$ ·
 Air pressure: Range 300 to 1200hPa; Accuracy $\pm 1\text{hPa}$ ·
 Acceleration: Range $\pm 2\text{g}$ to $\pm 16\text{g}$; Accuracy $\pm 40\text{mg}$ ·
 Battery: 1 × 1.5V AA · IP rating: IP20 · Senstick dimensions: 132x29x25mm.

Applications

Data centers · Museums · Warehouses · Storages ·
 Retail · Indoor environmental monitoring ·

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz
 (all frequencies available)

Power supply

Powered by 1 x 1.5V AA Alkaline battery (up to 7 years)

Data sheet



Temperature Only



Temperature Only Sensor **STO10** is a cost-effective temperature solution, ideal for HACCP and Cold Chain monitoring.



Features

Indoor use · Temperature measurements · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS) · Device logs 10 days of data (at 15 min send period)

Tech specs

Temperature: Range -40°C to +85°C; Accuracy $\pm 0,2^{\circ}\text{C}$
 · Accelerometer: Range $\pm 2\text{ g}$ to $\pm 16\text{ g}$; Accuracy $\pm 40\text{ mg}$
 · Sensor dimensions: 105x25mm

Applications

Food temperature · Food storage temperature · Cooking temperature · Hotel food safety · Kitchen & Restaurant personnel · Digitisation of food safety bureaucracy

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 1 x 1.5V AA Alkaline (up to 7 years)

Data sheet



Temperature Buffer



Food simulant sensor STB10 monitors dual temperature to ensure HACCP compliance reflect thermal inertia and reduce false alarms.



Features

Indoor use · Temperature measurements · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure · IP67 rated · Easy to 10 km of range (LOS) · Device logs 10 days of data (at 15 min send period)

Tech specs

Temperature: Range -40°C to +85°C; Accuracy $\pm 1^\circ\text{C}$ ·
 Accelerometer: Range $\pm 2\text{ g}$ to $\pm 16\text{ g}$; Accuracy $\pm 40\text{ mg}$ ·
 Glass bead buffer: 1.25-1.56 mm · Senstick dimensions: 150x25mm



Applications

Food temperature · Food storage temperature ·
 Cooking temperature · Hotel food safety · Kitchen &
 Restaurant personnel · HACCP digitalization · Cold
 Rooms · Warehouses · Storages · Retail



Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz
 (all frequencies available)

Power supply

Powered by 1 x 1.5V AA Alkaline battery (up to 7 years)

Data sheet



Temperature Probe



Industrial LoRaWAN probe sensor, STP40 measures temperature and is suitable for different industries.



Features

Outdoor use · Temperature Measurement · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS)



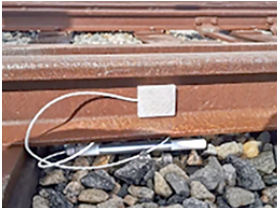
Tech specs

Temperature: Range -55°C to +125°C; Accuracy $\pm 0.5^\circ\text{C}$ ·
Accelerometer: Range $\pm 2\text{ g}$ to $\pm 16\text{ g}$; Accuracy $\pm 40\text{ mg}$ ·
Temperature Probe Dimensions: 5mm x 50mm ·
Senstick Dimensions: 105 x 27mm



Applications

Water tank temperature · River temperature · Railway temperature monitoring · Mulch temperature · Precision agriculture



Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3.6V lithium battery (up to 7 years)

Data sheet



Food Temperature



Food Probe Sensor STF40 is great for measuring food storage and cooking temperature.



Features

Indoor use · Temperature measurements · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS)

Tech specs

Temperature: Range -40°C to $+380^{\circ}\text{C}$; Accuracy $\pm 1^{\circ}\text{C}$ · Accelerometer: Range $\pm 2\text{ g}$ to $\pm 16\text{ g}$; Accuracy $\pm 40\text{ mg}$ · Food probe dimensions: $4 \times 170\text{ mm}$ · Senstick dimensions: $105 \times 27\text{ mm}$

Applications

Food temperature · Food storage temperature · Cooking temperature · Hotel food safety · Kitchen & Restaurant personnel · Digitisation of food safety bureaucracy

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3.6V lithium battery (up to 7 years)

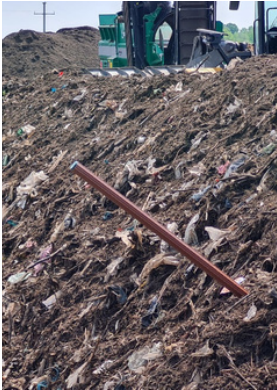
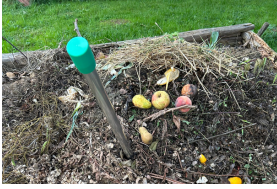
Data sheet



Compost Temperature



LoRaWAN compost temperature sensor, KOU20 is a cost-effective solution for waste management sites.



Features

Outdoor use · Temperature monitoring · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install · Up to 50 km of range (LOS)

Tech specs

Temperature: Range -40°C to +150°C; Accuracy $\pm 0.5^\circ\text{C}$
 · Accelerometer: Range $\pm 2\text{ g}$ to $\pm 16\text{ g}$; Accuracy $\pm 40\text{ mg}$
 · Dimensions: 3.5 cm x 145 cm

Applications

Compost temperature · Soil temperature · Mulch, grain temperature · Waste management sites · Fire protection · Food storage silos

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3.6V lithium battery (up to 7 years)

Data sheet



Rain Meter



Rain Meter LoRaWAN sensor, SRM10
collects data for rain precipitation.



Features

Outdoor use · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS)

Tech specs

Rainfall Metering: Accuracy 2% · Accelerometer: Range ± 2 g to ± 16 g; Accuracy ± 40 mg · Rain Bucket Dimensions: 165mm x 255mm · Senstick dimensions: 105x27mm

Applications

Smart Agriculture · HVAC · Smart cities · Cold chain management · Temperature-controlled supply chain · Data centers · Smart buildings · Energy audits · Precision agriculture · Environmental conservation and preservation

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3.6V lithium battery (up to 7 years)

Data sheet



Leaf Wetness



Leaf Wetness LoRaWAN sensor, SLW10 measures the presence and duration of moisture on the surface of leaves.



Features

Outdoor use · Leaf wetness · Motion detection · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Standardized sensor enclosure - IP68 rated · Easy to install with included mounting kit · Up to 50 km of range (LOS)



Tech specs

Accurate leaf wetness percentage % · Accelerometer: Range ± 2 g to ± 16 g; Accuracy ± 40 mg · Leaf probe dimensions: 120x58mm · Senstick dimensions: 105x27mm

Applications

Leaf wetness detection · Crops disease prevention · Smart agriculture · Vineyards · Orchards · Crop fields

Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3.6V lithium battery (up to 7 years)

Data sheet



Air Quality



Indoor air quality sensor SPU30 monitors CO₂ and TVOC, two of the most important air quality parameters.



Features

Indoor use · Air quality · CO₂ · TVOC · Temperature, relative humidity and air pressure · High and Low parameters alarm values · Sensor manipulation alert · Battery level feedback · Reconfiguration Over The Air · Easy to install · Up to 15 km of range (LOS)



Tech specs

CO₂: Range 400 to 5000ppm; Accuracy ± 30 ppm ·
TVOC: Range 0 to 10mg/m³; Accuracy ± 0.5 mg/m³ ·
Indoor temperature: Range -5°C to +40°C; Accuracy ± 0.2 °C ·
Relative Humidity: Range 0% to 100%; Accuracy $\pm 1,8\%$ ·
Atmospheric pressure: Range 880 to 1080 hPa; Accuracy ± 1 hPa ·
Dimensions: 80 mm x 80 mm x 20mm

Applications

Buildings · Museums · HVAC · Offices · Municipal buildings · Schools · Universities · Retail stores · Hospitals



Connectivity

Connect on LoRaWAN 868 MHz, 915 MHz and 923 MHz (all frequencies available)

Power supply

Powered by 3 x 1.5V AA Alkaline battery (up to 7 years)

Data sheet



Trusted by



Our partners





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