



Product catalogue

Why sensmax

We believe that every technology we are inventing should be wireless because it helps with easy, fast, and cost-effective implementation of IoT solutions.

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Real-time Occupancy Control People Counting Sensors



SensMax D3 TS sensors real-time

Bidirectional people counter SensMax Pro D3 TS designed for projects where it is needed to count people in real-time mode. It is a wireless device, so installation takes some minutes only.

You can see statistical data in real-time occupancy reports as well as in statistical report per 5-minutes time spans.

There are options on how to export statistics in a raw data format from SensWeb cloud reporting portal using API.

SensMax Pro D3 TS is a battery powered wireless people counter. Battery life is up to 1 year. Data delivery to a server using LAN/Internet or WiFi/Internet data gateways.

Features:

- Wireless sensor
- Movement direction detection
- Real-time data delivery

Modifications:

- SensMax D3 LR TS
- SensMax D3 SLR TS

Data delivery to the server using:

- Real-time data gateway SensMax TCPIP TS
- Real-time data gateway SensMax WiFi TS

Application	Public premises, Retail store, Shopping mall
Operation principle	Infrared beam crossing
Movement direction tracking	Bi-directional
Internal memory	2000 records
Connectivity range	SensMax D3 LR TS up to 150 m SensMax D3 SLR TS up to 800m
Radio module frequency	868 MHz
Enclosure	Black or White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 1 year
Dimensions	67x67x25mm
Counting accuracy	95% 2m, >2m -1%/m
Passage width	Optimal 1m - 5m, maximum - 9m
Infrared ray angle	Three beams, 6°
Fixture	Double-sided adhesive tape Plastic mounting bracket
Tamper protection	Sound alarm and report in software

Real-time reports

With options how to customize Messages and text size

Periscope Store Occupancy
Inside 6/10 max

6

Please wait!

Online reports for controlling occupancy in premises in real-time. You can set the allowed number of visitors in a retail store or any other premises and get on-screen notification signs together with customized text messages according to occupancy level.

There is an option for occupancy report sharing via a link and open the report on any mobile phone, tablet pc, laptop or TV screen. For example, place a tablet pc near the entrance to premises and display the number of visitors inside in real-time mode.



Retail people counting Wireless counting sensors



SensMax S1 sensor Uni-directional

SensMax PRO S1 sensor creates invisible infrared ray and every visitor crossing counts. This sensor has uni-directional people counting algorithm.

The sensor is a wireless device that works from standard batteries. The installation of the people counting sensors is simple, and it takes some minutes only.

People counters sending data to the online reporting cloud automatically via a LAN gateway every 20 minutes.

You can see visitors statistics in various ready-to-use reports per hour, day, week, month, and year.

Features:

- Wireless sensor
- Automated statistics delivery
- Online reporting

Modifications:

- SensMax S1
- SensMax S1 LR
- SensMax S1 SLR

Data delivery to the server using:

- SensMax TCP/IP LAN gateway for all sensor models
- SensMax WiFi gateway for LR/SLR sensor models

Application	Retail store, Shopping mall, Office building, Washroom, Library, Museum
Operation principle	Infrared beam crossing
Movement tracking	Uni-directional
Internal memory	25 days of hourly data
Connectivity range	SensMax PRO S1 up to 50m SensMax PRO S1 LR up to 150m SensMax PRO S1 SLR up to 800m
Radio module frequency	SensMax PRO S1 2.4 GHz SensMax PRO S1 LR 868 MHz SensMax PRO S1 SLR 868 MHz
Enclosure	Black or White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 2 years
Dimensions	67x67x25mm
Counting accuracy	95% 2m, >2m -1%/m
Passage width	Optimal 1m - 5m, maximum - 9m
Infrared ray angle	One beam, 6°
Fixture	Double-sided adhesive tape Plastic mounting bracket
Tamper protection	Sound alarm and report in software

Retail people counting

Wireless counting sensors

SensMax d3 sensor

Bi-directional

SensMax PRO D3 sensor creates an invisible infrared barrier from three rays and counting any visitor who crosses it.

The sensor can detect visitors' movement direction IN or OUT. It is a wireless sensor that works from standard batteries.

People counter delivers statistical data to the online reporting cloud automatically via a LAN or WiFi gateway every 20 minutes.

Visiting statistics displayed in various ready-to-use reports per hour, day, week, month, and year. There is an option to check statistics per every IN and OUT movement direction separately.

Features:

- Wireless sensor
- Automated statistics delivery
- Online reporting

Modifications:

- SensMax D3
- SensMax D3 LR
- SensMax D3 SLR

Data delivery to the server using:

- SensMax TCP/IP LAN gateway for all sensor models
- SensMax WiFi gateway for LR/SLR sensor models



Application	Retail store, Shopping mall, Office building, Washroom, Library, Museum
Operation principle	Infrared beam crossing
Movement tracking	Bi-directional
Internal memory	25 days of hourly data
Connectivity range	SensMax PRO D3 up to 50m SensMax PRO D3 LR up to 150m SensMax PRO D3 SLR up to 800m
Radio module frequency	SensMax PRO D3 2.4 GHz SensMax PRO D3 LR 868 MHz SensMax PRO D3 SLR 868 MHz
Enclosure	Black or White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 1 year
Dimensions	67x67x25mm
Counting accuracy	95% 2m, >2m -1%/m
Passage width	Optimal 1m - 5m, maximum - 9m
Infrared ray angle	Three beams, 6°
Fixture	Double-sided adhesive tape Plastic mounting bracket
Tamper protection	Sound alarm and report in software

Outdoor people counting Standalone wireless sensors

SensMax SE Sensor Uni-directional Outdoor

SensMax SE people counting sensor creates an infrared barrier and counts visitors passing a counting line.

It is a wireless device that works from standard AA batteries for up to 2 years.

There is an option to place the sensor in outdoor water and dust protected ABS plastic housings with IP68 level protection.

SensMax SE is a standalone sensor and there is no need to connect it to electricity or IT infrastructure.

Visiting statistics stored in the internal memory of the sensor, which is enough to keep hourly attendance statistics over the past 250 days.

You need to visit the sensor time from time to read the data from it using SensMax SE/DE manual data collector and export statistics to a local PC.

Features:

Wireless battery powered sensor
Extended internal memory
Water/dust protected outdoor case

Data reading using:

Manual data collector SensMax SE/DE



Application	Parks, Walking trails, Outdoor people counting for non-electricity areas
Operation principle	Infrared beam crossing
Movement tracking	Uni-directional
Internal memory	250 days of hourly data
Enclosure	Black or White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 2 years
Dimensions	67x67x25mm
Counting accuracy	95% 2m, >2m -1%/m
Passage width	Optimal 1m - 5m, maximum - 10m
Infrared ray angle	One beam, 6°
Fixture	Outdoor housing IP68

Outdoor people counting Standalone wireless sensors

SensMax DE sensor Bi-directional Outdoor

SensMax DE is infrared people counting sensor. It creates an infrared barrier from three invisible rays and counts visitors passing it.

The sensor using bi-directional people counting algorithm, so it can detect visitors' movement direction IN or OUT.

It is a wireless device that works from standard batteries for up to 1 year.

There is an option to order ABS plastic case with IP68 water/dust protection for outdoor usage.

SensMax DE sensor doesn't need any connection to power or Internet. It stores visiting statistics into internal memory for up to 150 days of hourly data.

Use SensMax SE/DE manual data collector to read the data from the sensor and export it to a local PC with SensMax Easy Report software installed by connecting the data collector via USB cable.

Features:

- Wireless battery powered sensor
- Extended internal memory
- Water/dust protected outdoor case

Data reading using:

- Manual data collector SensMax SE/DE



Application	Parks, Walking trails, Outdoor people counting for non-electricity areas
Operation principle	Infrared beam crossing
Movement tracking	Bi-directional
Internal memory	150 days of hourly data
Enclosure	Black or White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 1 year
Dimensions	67x67x25mm
Counting accuracy	95% 2m, >2m -1%/m
Passage width	Optimal 1m - 5m, maximum - 10m
Infrared ray angle	Three beams, 6°
Fixture	Outdoor housing IP68

SensMax TAC-B 3D-W mmWave radar People counting sensor

SensMax TAC-B 3D-W sensor Realtime Bi-directional



Application	People counting, Premises occupancy monitoring, Perimeter security motion detection, Queue management, Social distance monitoring, Outdoor people counting
People counting technology	Advanced mmWave radar technology 77Ghz
People counting options	Up to 5 user-defined counting lines and zones
Occupancy monitoring	Per sensor zone, per group of sensors
Installation options	Sidewall mounting at height 2-2.5m
Case	ABS plastic or IP65 discreet outdoor case
Counting accuracy	Up to 99% detection of one person per 1 m2, and >93% for crowded areas with 3 persons per 1 m2
Detecting area	10m range, 120° viewing angle (100m²)
GDPR/Privacy law	Anonymous people detection, 100% compliant, no filming
Notifications & Reporting	Telegram messenger API support, MQTT protocol support, Email notifications, and online reporting if the sensor connected to my.sensmax.eu cloud reporting system
Internet connection	WiFi 2.4 GHz/WPA2-PSK/WPA2-ENTERPRISE
Storage & Backup	Micro SD card 16GB
Power	AC 220V to DC 12V/0.5A
Dimensions	80x80x35 mm

SensMax TAC-B 3D-W sensor using the mmWave radar technology for people counting both indoor and outdoor people counting. The sensor can detect very fine motions in any light condition, even though rain, fog, or smoke. Sidewall mounting is fast and easy.

SensMax TAC-B 3D-W sensor supports up to 5 user-defined counting lines and zones. The sensor detects IN/OUT movement direction, the number of visitors inside zone, as well as occupancy time.

The sensor has advanced tuning settings for the best counting accuracy according to counting area size, object movement speed, object tracking time. It fits small and big premises, elevators, meeting rooms, toilets, as well as for narrow and wide entrances. Advanced people counting technology allows using the people counting radar for counting people at bus stops, street counting of pedestrians and cyclists, even counting of skiers at ski resorts.

The sensor delivers people counting data to online reporting portal using WiFi internet connection in real-time mode. Telegram messenger API support allows getting notifications to a mobile phone in real-time.

The sensor supports IoT MQTT protocol, so it is possible to send people counting data directly to any 3rd party reporting system without connecting the sensor to the SensMax cloud services.

Features:

- Multiple counting lines/zones
- Outdoor/indoor usage
- Easy sidewall installation
- No-filming, GDPR compliant
- MQTT support
- Real-time data delivery over WiFi

Customer survey buttons

Wireless sensors



SensMax Loyalty Button L3

Wireless

SensMax Loyalty button is a wireless battery-powered device for customer satisfaction research. This sensor is part of people counting system and allows to add customer feedback to people counting statistics.

It has three emotion icons on it – happy, sad, and disappointed. Wireless customer survey button has a plastic question holder-stand where you can place a printed question for your customers.

The survey results delivered to a central database via a LAN/Internet or WiFi Internet gateway every 20 minutes.

Wireless customer survey button has internal memory that is enough to store a backup of 25 days of statistics. The loyalty button works from standard AA batteries for up to 2 years.

Application	Retail store, Bank office, Post office, Washroom, Airport, Smart building, Shopping mall
Operation principle	Pressing one of three feedback buttons with smiley faces
Connectivity range	SensMax Loyalty Button L3 50m SensMax Loyalty Button L3 LR 150m SensMax Loyalty Button L3 SLR 800m
Radio module frequency	SensMax Loyalty Button L3 2.4 GHz SensMax Loyalty Button L3 LR 868MHz SensMax Loyalty Button L3 SLR 868MHz
Internal memory	25 days
Enclosure	White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 2 years
Dimensions	67x67x25mm
Spam filter	Intelligent digital filter for spam pressings filtration
Fixture	Double-sided adhesive tape or plastic stand

Features:

Wireless sensor
Battery life up to 2 years
Spam pressings filter

Modifications:

SensMax Loyalty Button L3
SensMax Loyalty Button L3 LR
SensMax Loyalty Button L3 SLR

Data delivery to a server using:

SensMax TCPIP LAN gateway for all sensor models
SensMax WiFi gateway for LR/SLR sensor models

Customer survey buttons Real-time wireless sensors

SensMax Loyalty Button L3 TS REAL-Time

SensMax Loyalty Button L3 TS designed for customer surveys at any business related locations. This sensor works in real-time mode.

Customers can choose three emotion icons in their answers – happy, sad, and disappointed. The wireless customer survey button mounted on a plastic stand with a printed question.

The device delivers customer replies to a server in real-time using LAN/Internet or WiFi Internet gateway. You can see statistical data in real-time or per 5-minutes time spans in analytical reports.

Wireless customer survey button works from AA batteries for up to 2 years. It has a powerful radio module with an extended communication range and can connect the data gateway in a range of up to 800m.

Features:

- Wireless sensor
- Battery life up to 2 years
- Spam pressings filter
- Extended connectivity range

Data delivery to a server using:

- SensMax TCPIP SLR TS gateway
- SensMax WiFi SLR TS gateway



Application	Airport, Smart building, Shopping mall, Retail store, Bank office, Post office, Washroom
Operation principle	Pressing one of three feedback buttons with smiley faces
Connectivity range	SensMax Loyalty Button L3LR TS 150m SensMax Loyalty Button L3SLR TS 800m
Radio module frequency	SensMax Loyalty Button L3 LR 868MHz SensMax Loyalty Button L3 SLR 868MHz
Internal memory	1000 records
Enclosure	White ABS Plastic
Power supply	AA batteries
Battery lifetime	Up to 2 years
Dimensions	67x67x25mm
Spam filter	Intelligent digital filter for spam pressings filtration
Fixture	Double-sided adhesive tape or plastic stand

Gateways for data collecting From people counting sensors

SensMax TCPIP data collector LAN-connected gateway

SensMax TCPIP automatic data gateway is a device for data downloading from wireless people counting sensors and customer survey buttons.

It delivers data to a central database using LAN/Internet connection. The data gateway connecting sensors every 20 minutes to read statistics from them. The data gateway has RJ45 port for connection to Internet router using LAN cable.

Connectivity range to sensors is from 50m up to 800m depending on device model. The gateway has a built-in memory for 250 days backup of hourly data.

The backup memory shared among all served sensors, in example, 5 sensors can have additional backup for 50 days each.

Features:

Backup memory 250 days
Automated data reading
LAN connection

Modifications:

SensMax TCPIP
SensMax TCPIP LR
SensMax TCPIP SLR



Sensors supported	SensMax Pro S1 SensMax Pro S1 LR SensMax Pro S1 SLR SensMax Pro D3 SensMax Pro D3 LR SensMax Pro D3 SLR SensMax Loyalty Button L3 SensMax Loyalty Button L3 LR SensMax Loyalty Button L3 SLR
Communication ranges	SensMax TCPIP up to 50m SensMax TCPIP LR up to 150m SensMax TCPIP SLR up to 800m
Qty of serviced devices	SensMax TCPIP 5pcs sensors SensMax TCPIP LR 30pcs sensors SensMax TCPIP SLR 30 pcs sensors
Internal memory	250 days of hourly data Shared memory among sensors
LAN connection	RJ45 port
Configuration port	USB
Radio frequency	SensMax TCPIP 2.4GHz SensMax TCPIP LR 868MHz SensMax TCPIP SLR 868MHz
Power supply	AC adapter 5V or POE
Dimensions	90x66x28mm
Enclosure	ABS Plastic, black

Gateway for data collecting From people counting sensors

SensMax WiFi data collector Wireless internet gateway

SensMax WiFi automatic data gateway is a device for data downloading from wireless people counting sensors and customer survey buttons.

SensMax WiFi data gateway is a device for reading statistical information from wireless people counting sensors and customer survey buttons.

The gateway reading information from sensors every 20 minutes and delivers it to a central database via WiFi Internet connection.

The gateway can read data from sensor in a range from 150m up to 800m depending on device model. The gateway has backup memory for 250 days of hourly data.

The backup memory shared among all served sensors, in example, 3 sensors can have additional backup for 83 days each.

Features:

Backup memory 250 days
Automated data reading
WiFi connection

Modifications:

SensMax WiFi LR
SensMax WiFi SLR



Sensors supported	SensMax Pro S1 LR SensMax Pro S1 SLR SensMax Pro D3 LR SensMax Pro D3 SLR SensMax Loyalty Button L3 LR SensMax Loyalty Button L3 SLR
Communication ranges	SensMax WiFi LR up to 150m SensMax WiFi SLR up to 800m
Qty of serviced devices	SensMax WiFi LR 30pcs sensors SensMax WiFi SLR 30 pcs sensors
Internal memory	250 days of hourly data Shared memory among sensors
Internet connection	WiFi 2.4 GHz/WPA2-PSK
Configuration port	USB
Radio frequency	SensMax WiFi LR 868MHz SensMax WiFi SLR 868MHz
Power supply	AC adapter 5V or POE
Dimensions	90x66x28mm
Enclosure	ABS Plastic, black

Gateway for data collecting From real-time People counting sensors

SensMax TCPIP TS data collector Real-time LAN gateway

SensMax TCPIP LongRange TS gateway is a device for reading statistics from real-time wireless people counters and real-time customer survey buttons.

The gateway connectivity range to the wireless sensors is up to 150m. It needs a wired connection to a local internet router using LAN cable.

SensMax TCPIP TS gateway working in real-time mode and updating the central database immediately after visitor passed people counting sensor or pressed survey sensor button.

The gateway can serve up to 30 sensors and has internal memory for 2000 recordings backup.

Features:

Real-time data reading
LAN connection
Communication range up to 800m

Modifications:

SensMax TCPIP LR TS
SensMax TCPIP SLR TS



Sensors supported	SensMax Pro D3 LR TS SensMax Pro D3 SLR TS SensMax Loyalty Button L3 LR TS SensMax Loyalty Button L3 SLR TS
Connectivity range	SensMax TCPIP LR TS up to 150m SensMax TCPIP SLR TS up to 800m
Qty of serviced devices	SensMax TCPIP LR TS 30pcs sensors SensMax TCPIP SLR TS 30 pcs sensors
Internal memory	2000 records Shared memory among sensors
LAN connection	RJ45 port
Configuration port	USB
Radio frequency	SensMax TCPIP LR TS 868MHz SensMax TCPIP SLR TS 868MHz
Power supply	AC adapter 5V or POE adaptor
Dimensions	90x66x28mm
Enclosure	ABS Plastic, black

Gateway for data collecting From real-time People counting sensors

SensMax WIFI TS data collector Real-time gateway

SensMax WiFi data gateway is a device for data downloading from real-time people counting sensors and customer survey buttons.

The gateway delivering information from sensors to a central database via WiFi Internet connection in real-time mode.

It can read information from up to 30 sensors in a range from 150m up to 800m depending on device model. The gateway has backup memory for 2000 records.

Share open or password protected WiFi network for the data gateway or use WPS connection function to receive statistics in SensMax cloud reporting portal.

Features:

Real-time data reading
Communication range up to 800m
WiFi internet connection

Modifications:

SensMax WiFi LR TS
SensMax WiFi SLR TS



Sensors supported

SensMax Pro D3 LR TS
SensMax Pro D3 SLR TS
SensMax Loyalty Button L3 LR TS
SensMax Loyalty Button L3 SLR TS

Connectivity range

SensMax WiFi LR up to 150m
SensMax WiFi SLR up to 800m

Qty of serviced devices

SensMax WiFi LR TS 30pcs sensors
SensMax WiFi SLR TS 30pcs sensors

Internal memory

2000 records
Shared memory among sensors

Internet connection

WiFi 2.4 GHz/WPA2-PSK

Configuration port

USB

Radio frequency

SensMax WiFi LR TS 868MHz
SensMax WiFi SLR TS 868MHz

Power supply

AC adaptor 5V or POE adaptor

Dimensions

66x56x28mm

Enclosure

ABS Plastic, black



SensMax LED-391 Indoor/Outdoor LED screen

SensMax LED-391 screen designed for displaying actual information from SensMax people counting systems. The screen shows actual readings from people counters in real-time.

It can connect the data gateway within a range of up to 150-250 and up to 1000 meters depending on device model.

The LED screen is designed both for indoor and outdoor usage, so it is possible to fix it on a wall or standing mount nearby entrance.

There is an option to show information from one people counter sensor, as well as combined data from a group of people counting sensors. It gives the opportunity to use the LED screen for occupancy monitoring for single rooms/premises or complex buildings with many entrances.

According to projects needs, you can set up a number of allowed people inside premises and display STOP/GO notifications in red or green color according to an actual number of visitors inside.

Features:

- Real-time data reading
- Communication range up to 1000m
- Wireless connection to gateway

Modifications:

- SensMax LED-391 LR TS
- SensMax LED-391 SLR TS



Size	500 x 500 mm
Sensors supported	SensMax Pro D3 LR TS SensMax Pro D3 SLR TS
Gateways supported	SensMax WiFi LR TS SensMax WiFi SLR TS
Connectivity range	SensMax LED-391 LR TS up to 150-200m SensMax LED-391 SLR TS up to 1000m
Radio frequency	868MHz
Power supply	230 VAC
Power consumption	50W
Brightness of white balance	≥65000cd/m ²
Pixel resolution	128 x 128 px

Gateway for data collecting From outdoor people counters

SensMax SE/DE data collector Manual Gateway

SensMax SE/DE data collector is a device for statistical data reading from outdoor people counter sensors. It has a wireless infrared port for data downloading from the people counting sensors SensMax SE and SensMax DE.

You need to aim the data collector at the people counting sensors from a short distance and press the button. Data from wireless footfall counting sensors stored in internal memory is enough for saving up to 2000 days of hourly statistics from all served sensors. The collector supports data reading from up to 100 sensors.

SensMax SE/DE data collector has a built-in battery for 1 year of operation with the option to recharge the battery via USB port. To download statistics from the data collector, please connect it to any PC with preinstalled SensMax EasyReport reporting software.

Features:

Built-in accumulator
Internal memory 2000 days
Rechargeable via USB



Sensors supported	SensMax SE SensMax DE
Connectivity range	Up to 1m infrared connection
Qty of serviced sensors	Up to 100pcs
Internal memory	2000 days of hourly data
PC connection	USB
Power supply	Built-in Li-Ion accumulator
Battery life	Up to 1 year
Dimensions	110x25x25mm
Enclosure	ABS Plastic, black

Temperature monitoring

Wireless temperature sensors

SensGuard MCP9808 Sensor

Waterproof

Wireless temperature monitoring sensor SensMax SensGuard MCP9800 designed for accurate remote temperature monitoring within range of -20°C to $+55^{\circ}\text{C}$.

This sensor measures temperature with an accuracy of 0.5°C each five minutes and transmits data to a data gateway via a wireless data transfer protocol. Connectivity range is up to 150m.

You can use this temperature monitoring sensor indoor and outdoor, as well as in wet and dusted environments because it has a waterproof and dust protected case with IP65 protection level.

Very easy wireless installation – stick wireless temperature sensor to any surface, and it will start measuring temperature around.

Features:

Wireless temperature sensor
Waterproof
Battery life 5 years

Data delivery to a server using:

SensGuard TCP LRX2 data gateway



Application	Warehouse, Freezing/cooling equipment, Food storage, Data center, Heating and ventilation system, Smart building
Temperature range	-20°C .. $+55^{\circ}\text{C}$
Measurement accuracy	$\pm 0.5^{\circ}\text{C}$
Measurement resolution	0.1°C
Measurement period	5 minutes
Battery type	Built-in Li-Ion non flammable IEC86-4 safety standard battery 400mAh non-replaceable
Battery life	5 years
Communication frequency	868MHz
Communication range	Up to 150m
Data signal encryption	AES128
Dimensions	55x25x12mm
Fixture	Double-sided adhesive tape
Case	Waterproof, IP65 protection

Temperature and humidity monitoring

Wireless temperature sensors

SensGuard ENS210 Sensor

Waterproof

Wireless temperature and humidity monitoring sensor SensMax SensGuard ENS210 designed for remote temperature and humidity monitoring within the range of -20°C to +55°C and 0%-100% RH.

SensGuard ENS210 wireless temperature and humidity sensor measurement accuracy are $\pm 0.5^\circ\text{C}$ and 3.5% RH.

The sensor reads temperature and humidity parameters every five minutes and transmits data to a data gateway via a wireless data transfer protocol. The connectivity range is up to 150m.

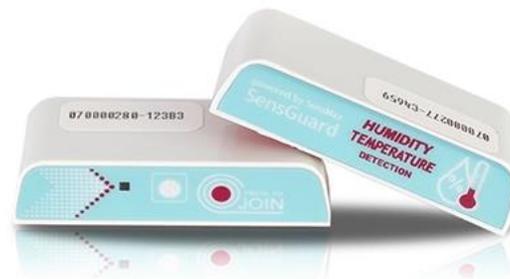
The sensor delivers temperature and humidity parameters to a cloud reporting portal every 5 minutes.

Features:

Wireless temperature and humidity sensor
Waterproof
Battery life 5 years

Data delivery to a server using:

SensGuard TCP LRX2 data gateway



Application	Warehouse, Freezing/cooling equipment, Food storage, Data center, Heating and ventilation system, Smart building, Greenhouse
Parameters control range	-20°C ..+55°C, 0..100% RH
Measurement accuracy	$\pm 0.5^\circ\text{C}$, $\pm 3.5\%$ RH
Measurement resolution	0.1°C, 01% RH
Measurement period	5 minutes
Battery type	Built-in Li-Ion non flammable IEC86-4 safety standard battery 400mAh non-replaceable
Battery life	5 years
Communication frequency	868MHz
Communication range	Up to 150m
Data signal encryption	AES128
Dimensions	55x25x12mm
Fixture	Double-sided adhesive tape
Case	Waterproof, IP65 protection

Temperature monitoring

Wireless temperature sensors

SensGuard DS1820 Sensor With probe

Remote temperature sensor with probe SensMax SensGuard DS18B20 is a wireless sensor for temperature monitoring in a range of -30°C and up to $+120^{\circ}\text{C}$.

This temperature sensor works from standard AAA batteries for 5 years. The sensor measures temperature within $\pm 0.5^{\circ}\text{C}$ accuracy and 0.1°C resolution.

It has a 1.5m long temperature probe that helps to install it in hardly accessible spots. Temperature readings delivered to an online database every 5 minutes through LAN/Internet gateway.

Wireless temperature sensor DS18B20 can connect the data gateway in range of up to 150m.

Features:

- Wireless temperature sensor
- Replaceable batteries
- Sensor probe

Data delivery to a server using:

SensGuard TCP LRX2 data gateway



Application	Freezing/cooling equipment, Food storage, Data center, Heating and ventilation system, Smart building, Laboratory
Temperature range	$-30^{\circ}\text{C} \dots +120^{\circ}\text{C}$
Temperature probe length	1.5 m
Measurement accuracy	$\pm 0.5^{\circ}\text{C}$
Measurement resolution	0.1°C
Measurement period	5 minutes
Battery type	2xAAA
Battery life	5 years
Communication frequency	868MHz
Communication range	Up to 150m
Data signal encryption	AES128
Dimensions	67x67x25mm
Fixture	Double-sided adhesive tape

Temperature monitoring

Wireless temperature sensors

SensGuard PT100 Sensor With probe

Wireless temperature sensor with probe SensMax SensGuard PT100 designed for temperature monitoring in a range of -50°C and up to +200°C.

This sensor measures temperature with $\pm 0.2^\circ\text{C}$ accuracy and 0.1°C resolution using a temperature probe with a length of 1.5m. It works using standard AAA batteries for at least 5 years.

Temperature measurements delivered from the sensor to a server every 5 minutes using LAN/Internet gateway.

Wireless sensor connectivity range to the data gateway is up to 150m.



Features:

- Wireless temperature sensor
- Replaceable batteries
- Sensor probe
- Extended temperature range

Data delivery to a server using:

SensGuard TCP LRX2 data gateway

Application	Freezing/cooling equipment, Food storage, Data center, Heating and ventilation system, Smart building, Industrial environment, Laboratory
Temperature range	-50°C ..+ 200°C
Temperature probe length	1.5 m
Measurement accuracy	$\pm 0.2^\circ\text{C}$
Measurement resolution	0.1°C
Measurement period	5 minutes
Battery type	2xAAA
Battery life	5 years
Communication frequency	868MHz
Communication range	Up to 150m
Data signal encryption	AES128
Dimensions	67x67x25mm
Fixture	Double-sided adhesive tape

Temperature monitoring

Wireless temperature sensors

SensGuard PT100HA Sensor With probe

SensMax SensGuard PT100 HIGH ACCURACY is a wireless temperature sensor designed for temperature monitoring in a range of -200°C and up to +200°C.

The sensor works from two AAA batteries for up to 2 years. Temperature measurement accuracy is $\pm 0.1^\circ\text{C}$ and resolution is 0.01°C .

It has the 1.5m long temperature probe that is used for extreme cold and high temperature measurements.

Remote temperature sensor delivers statistics to a server using LAN/Internet gateways for every 5 minutes. Connectivity range to the data gateway is up to 150m.

Features:

- Wireless temperature sensor
- Replaceable batteries
- Sensor probe
- Extended temperature range
- High accuracy measurements

Data delivery to a server using:

SensGuard TCP LRX2 data gateway



Application	Freezing/cooling equipment, Heating and ventilation system, Industrial environment, Laboratory
Temperature range	-200°C .. + 200°C
Temperature probe length	1.5 m
Measurement accuracy	$\pm 0.1^\circ\text{C}$
Measurement resolution	0.01°C
Measurement period	5 minutes
Battery type	2xAAA
Battery life	2 years
Communication frequency	868MHz
Communication range	Up to 150m
Data signal encryption	AES128
Dimensions	67x67x25mm
Fixture	Double-sided adhesive tape

Gateway for data collecting From Temperature & Humidity sensors

SensGuard TCP LRX2 Data collector LAN gateway

SensMax SensGuard TCP LR X2 remote monitoring system gateway is a LAN-connected device for reading data from various types of temperature and humidity sensors.

This gateway supports data collection from up to 250 sensors. Communication distance to wireless sensors is up to 150m. It has a standard RJ45 port for connection to a local router and provides automatic data forwarding to the online reporting portal.

SensMax SensGuard TCP LR X2 data gateway has internal memory for short time data backup. In case of any Internet connection problems, the data gateway will save records internally and will update the online database automatically once the connection restored.

Features:

Supports 250pcs sensors
Communication range up to 150m
LAN connection



Devices supported	SensGuard MCP9808 SensGuard ENS210 SensGuard DS1820 SensGuard PT100 SensGuard PT100HA
Communication ranges	Up to 150m
Communication frequency	868Mhz
Data signal encryption	AES128
Qty of serviced devices	Up to 250 wireless sensors
Internal memory	The short term shared backup memory (5 sensors 18h, 200 sensors 30 min)
LAN connection	RJ45
Configuration port	USB
Power supply	AC adapter 5V or POE
Dimensions	90x66x28mm
Frame	ABS Plastic, black
Fixture	Double-sided adhesive tape

Accessories



V-type Plastic Bracket

Rotating angle bracket 0°-180° for people counting sensors



I-type Plastic Bracket

Flat bracket for people counting sensors



L-type Plastic Bracket

Corner 90 degrees bracket for people counting sensors



Two sided adhesive tape

Strong adhesive tape roll 33m for sticking any sensors to any surface



Lithium Batteries

High quality industrial batteries longlife AA Li-Ion (4 pcs) for cold temperatures



PoE Adaptor

Power over Ethernet adaptor for SensMax TCPIP data gateways



SensMax Mini DC UPS/Powerbank

UPS/Powerbank for SensMax data gateways, USB & DC charging, DC 9V, DC 12V, USB 5V 1A, 32.56 Wh (8800mAh)



Plastic stand

Plastic stand and question holder for customer survey buttons L3



Outdoor housing

Plastic housing for outdoor sensors installation, IP68 protection, waterproof, dustproof



Micro SD card

Backup memory for SensMax mmWave sensor



Wireless 4G Router

4G Router for creating WiFi network for WiFi devices and delivering data to the online reporting portal