



SensMax real-time people counting system

Automatic occupancy monitoring without staff involvement

Monitoring the number of store visitors online has become very important during these difficult times of the pandemic. It is necessary to control the number of visitors to the premises to meet the requirements of social distance. This process can be automated by installing real-time people counting sensors that help track the number of people in stores and **display automated notifications to incoming shoppers** on any screen with an Internet connection, such as a TV, tablet, or smartphone.

SensMax has developed a specialized solution for monitoring the number of visitors on-premises. The people counting system displaying the number of people on-premises in real-time. This solution is based on **wireless sensors** that can be installed in minutes without any complicated communication cable installation works. The sensors can be grouped and display the total number of people in rooms with many entrances and exits. Data from the sensors is sent to the reporting portal using WiFi or local area network-connected data collectors.

The actual number of people on the premises is displayed in specialized reports with the possibility to set three types of notifications in green, orange, and red colors, depending on the number of people allowed in the rooms. For example, the store has a capacity of 150 people and 93 visitors. The system will display the current number of people and display a green **"Welcome to come in"** message or something else that can be set by the system administrator.

Advantages of SensMax occupancy management system:

- Real-time visitor tracking.
- Quick wireless installation.
- Online reports can be opened on any screen with an Internet connection.
- Automatic notifications according to the number of visitors.
- Possibility to change the content of notifications.

If the number of visitors approaches the specified level, the system will change the color of the notification to orange and change the notification to **"Visitor limit almost reached, please wait"**. But if it is exceeded, the system will display a red message **"Stop! Please wait!"**. As already mentioned, the content of the notifications can be changed. As an additional warning, it is possible to play any audio file on the TV or tablet when the visitor limit is exceeded, such as an audio recording or an alarm to additionally draw the visitor's attention to the notification.

It is also possible to use a specialized LED screen, which can be installed both indoors and outdoors. On the screen, it is possible to display the current data of the room occupancy level, as well as specialized notifications in green and red, according to the settings of the allowed visitor quantity in the premises. The screen can be mounted on a stand or a wall.

Online reports automatically process visitor data from all sensors, so **if a visitor entered through one entrance and went out through another**, you will see the correct number of visitors to the premises. In addition to monitoring the number of visitors, the system also counts statistical visitor data, which is displayed in various reports for different periods - 5 minutes, hour, day, week, month, year. Thus, it is possible to view visitor trends and historical data.

Examples of real-time people counting reports

Shop1
inside 251 / max 3000



Welcome

Shop2
inside 315 / max 2000



Please wait a bit

Shop3
inside 250 / max 10



STOP! Please wait outside

SensMax®
SensMax® Sense your business

Shop1
inside 246 / max 3000



Welcome

Shop2
inside 313 / max 2000



Please wait a bit

Shop3
inside 247 / max 10



STOP! Please wait outside

SensMax®
SensMax® Sense your business

Examples of notifications on a LED screen



Some technical details of the solution

The wireless visitor tracking sensors **SensMax D3 TS** powered by standard AA batteries. The sensors can be attached to any surface using the strong double-sided adhesive tape included in the sensor kit. For non-standard entrances different types of fasteners are available - I-type, L-type, and V-type with adjustable installation angle for curved entrances. Sensors' communication distance is 150m and up to 800m, depending on the equipment model. The sensors using LoRa technology for connecting data gateway, which allows the signal to go through obstacles and walls. One data gateway can serve up to 30 sensors simultaneously. The sensor has a built-in backup memory, and in case of temporary internet connection failure, the data will be saved and sent to the server when the connection is re-established.



Operation principle: infrared beam crossing

Movement direction finding: two directions IN and OUT

Internal memory: 1000 records

Measurement period: 5-min in graphic reports, 1-sec in raw data format

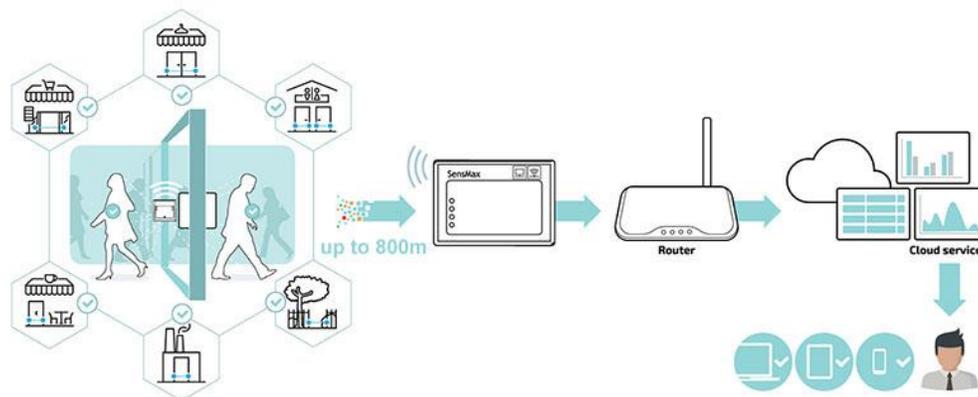
Battery life: up to 1 year

Additional feature: real-time data delivery to a server

Communication range: SensMax D3 LR TS lidz 150m

SensMax D3 SLR TS lidz 800m

People counting solution architecture:



Pricing details

SensMax D3 LR TS sensor kit of rone entrance	334 EUR
SensMax WiFi LR TS or TCPIP LR TS data gateway	255 EUR
LED-391 LR TS screen	630 EUR
SensWeb Premium subscription for real-time reports per 1 sensor per 1 month	1 EUR