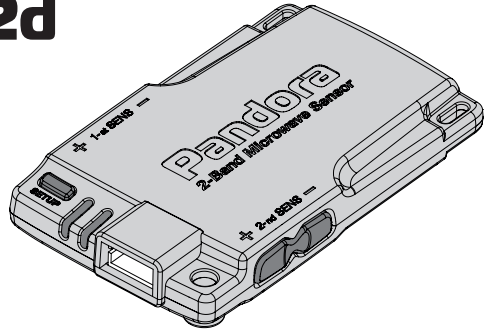


# Pandora VS-22d

## Two-band microwave sensor

- Smart processing of information with reliable protection from false triggering
- Non-volatile memory of set triggerig levels
- Sensitivity adjusting within a wide range
- Remote sensitivity adjusting via Pandora security system
- Energy efficiency



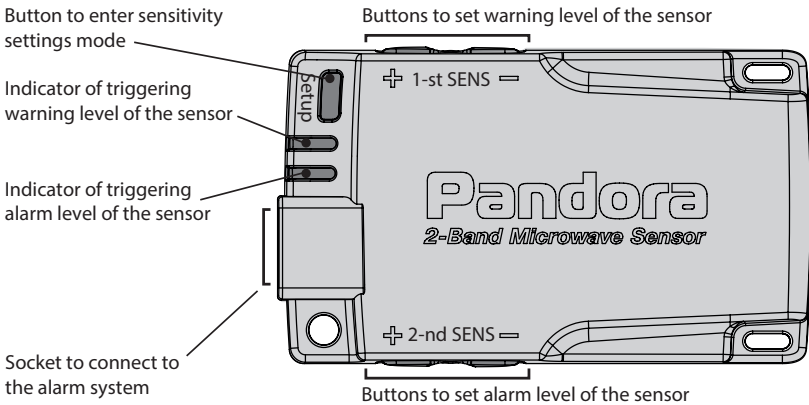
### Microwave sensor Pandora VS-22d

This sensor is intended for additional security of car perimeter. It connects to a car service-security system, triggers when coming to the armed car and penetrating to the car interior.

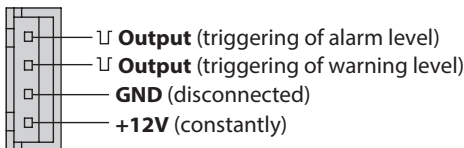
Pandora VS-22d is a compact size digital microwave sensor, herewith it is high-tech and energy efficient with extended dynamic range.

Sensor VS-22d is designed to be installed on passenger and off-road cars, minivans, as well as on cars with low-capacity batteries, toned and armored windows, a lot of anti-theft and musical equipment, with voltage of on-board power supply 12V.

### Assignment of buttons

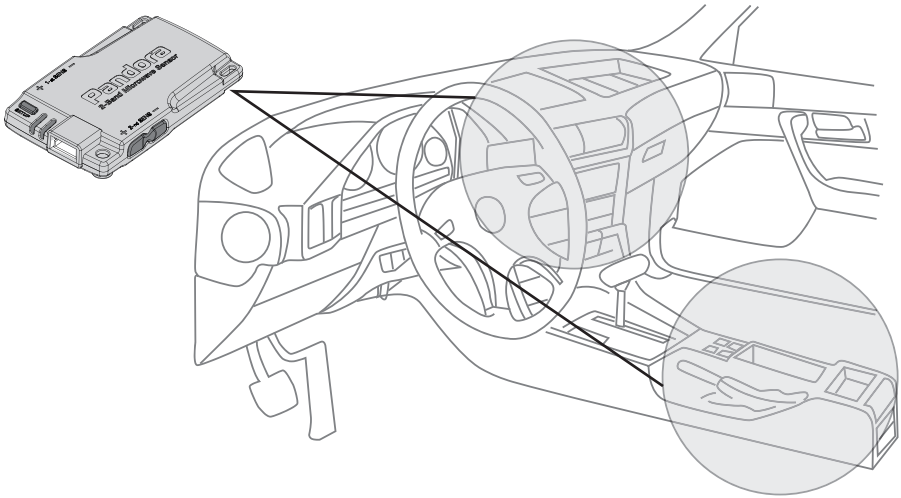


### Socket to connect to the alarm system



## Mounting instruction

Microwave sensor should be installed inside of the car interior in places that provide uniform sensitivity across the interior space (generally, between front seats of a car, under torpeda, less in the lamp cover).



When selecting the place to install the sensor, pay attention that nearby metal objects and elements of the car body reduce the sensor sensitivity and change the diagram orientation. The sensor can be connected to the system base unit with the cable that is in the system set.

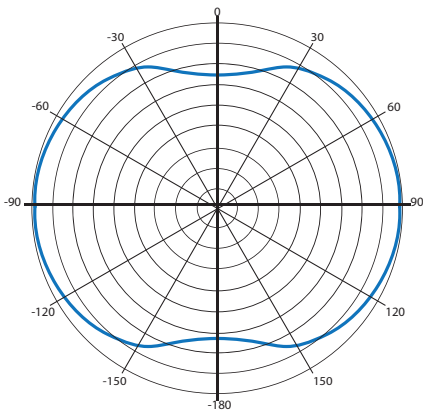


Diagram orientation in the horizontal plane\*

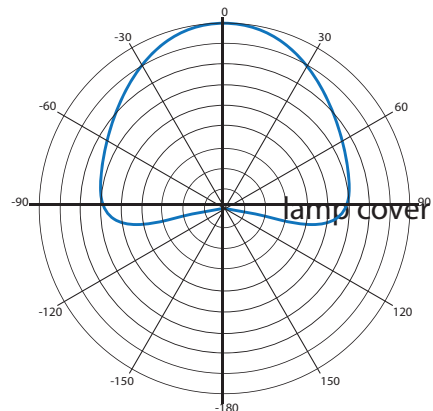


Diagram orientation in the vertical plane\*

## Adjusting sensor sensitivity

Sensitivity of microwave sensor VS-22d zones (warning/alarm) should be set sequentially (in any order). Sensitivity of sensor alarm triggering zone cannot be more than sensitivity of warning zone.

\* diagram orientation of the sensor is approximate, in real conditions sensitivity depends on the vehicle and the sensor mounting location

### 1. Entering settings mode

- Press and hold SETUP button for 2 seconds.
- LED indicators flashes red and green in rotation.

### 2. Adjusting warning level

- Press + button of 1-st SENS to increase or - button of 1-st SENS to decrease sensitivity. Hold the button for prompt sensitivity setting.
- LED indicator displays the current sensitivity value. Frequency of indicator flashing equals sensitivity: when maximum sensitivity - LED indicator lights almost continuously, when minimum sensitivity - it flashes occasionally.
- The sensor proceeds to the mode of displaying active zones in 3 seconds that is indicated with single flash of two LED indicators simultaneously.

### 3. Adjusting alarm level

- Press + button of 2-st SENS to increase or - button of 2-st SENS to decrease sensitivity. Hold the button for prompt sensitivity setting.
- LED indicator displays the current sensitivity value. Frequency of indicator flashing equals sensitivity: when maximum sensitivity - LED indicator lights almost continuously, when minimum sensitivity - it flashes occasionally.
- The sensor proceeds to the mode of displaying active zones in 3 seconds that is indicated with single flash of two LED indicators simultaneously.

### 4. Exit and save settings

- To save sensitivity value and exit settings mode, press and hold SETUP button for 2 seconds.
- LED indicators flashes red and green 3 times simultaneously.

*If some buttons were not pressed for 1 minute, this mode will be exited automatically.*

## Specifications

Supply voltage range..... 9...16V  
Current consumption when arming.....no more than 1,8 mA  
Output circuits type.....open drain  
n-channel MOSFET

Output signals duration:

warning.....no less than 0,5 sec.  
alarm.....no less than 0,5 sec.

Dimensions.....71,5x42x11,5 mm  
Operating temperature range.....- 40°C .. +85°C

## System set

Microwave sensor VS-22d.....1  
Interface cable.....1  
User installation manual.....1

pandorainfo.eu  
Distribution:TSS Group

Product is in conformity with Electromagnetic Compatibility  
Directive EMC 2004/108/EC and R&TTE Directive 1999/5/EC

