

# FMC Series detectors calibration and adjustment using android platform and RS-BL converter connected wirelessly via Bluetooth

FMC series detector

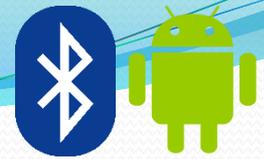


RS-BL converter



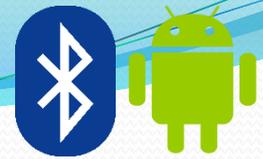
any  device





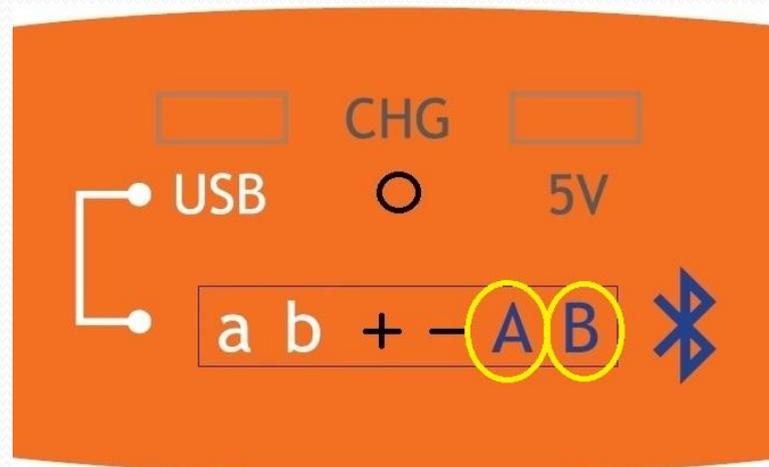
# The RS-BL converter consists of two independent converters inside:

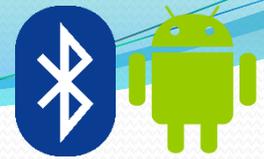
- Converter **RS-485 in a USB** (hereinafter referred to as **RS**), ensuring the connection of the detector to the Android device over the wire communication line.
- Converter **RS-485 in Bluetooth** (hereinafter referred to as **BL**), ensuring the connection of the detector to the Android device over the wireless network.



## Converter RS-485 in a Bluetooth (BL)

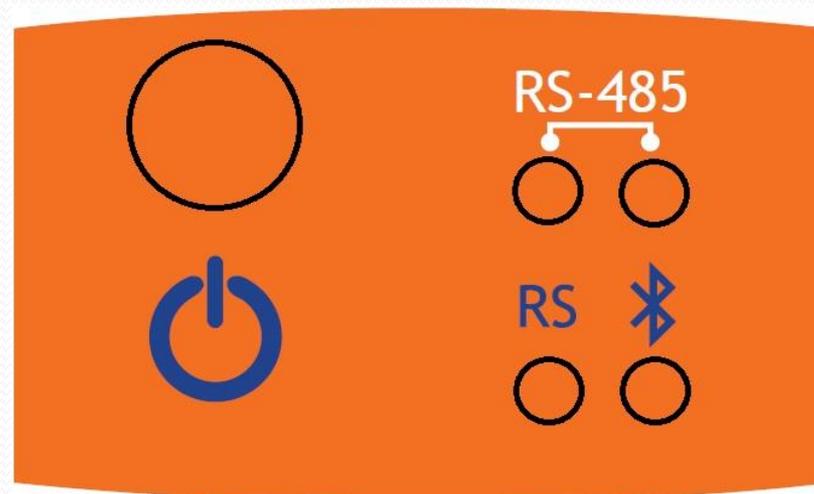
- Connecting one end of the cable (included in to the delivery set) to the RS-BL (*red cable to the „A“, black to the „B“ BL converter connection terminal* ) and another end to the sensor.





# Activate Bluetooth

- Turn ON Forteza RS-BL (Press power button).
- Then the indicator „RS“ glow it's mean that connection is correct.
- While indicator „RS“ lights, bluetooth rarely blinks (ready to connection).

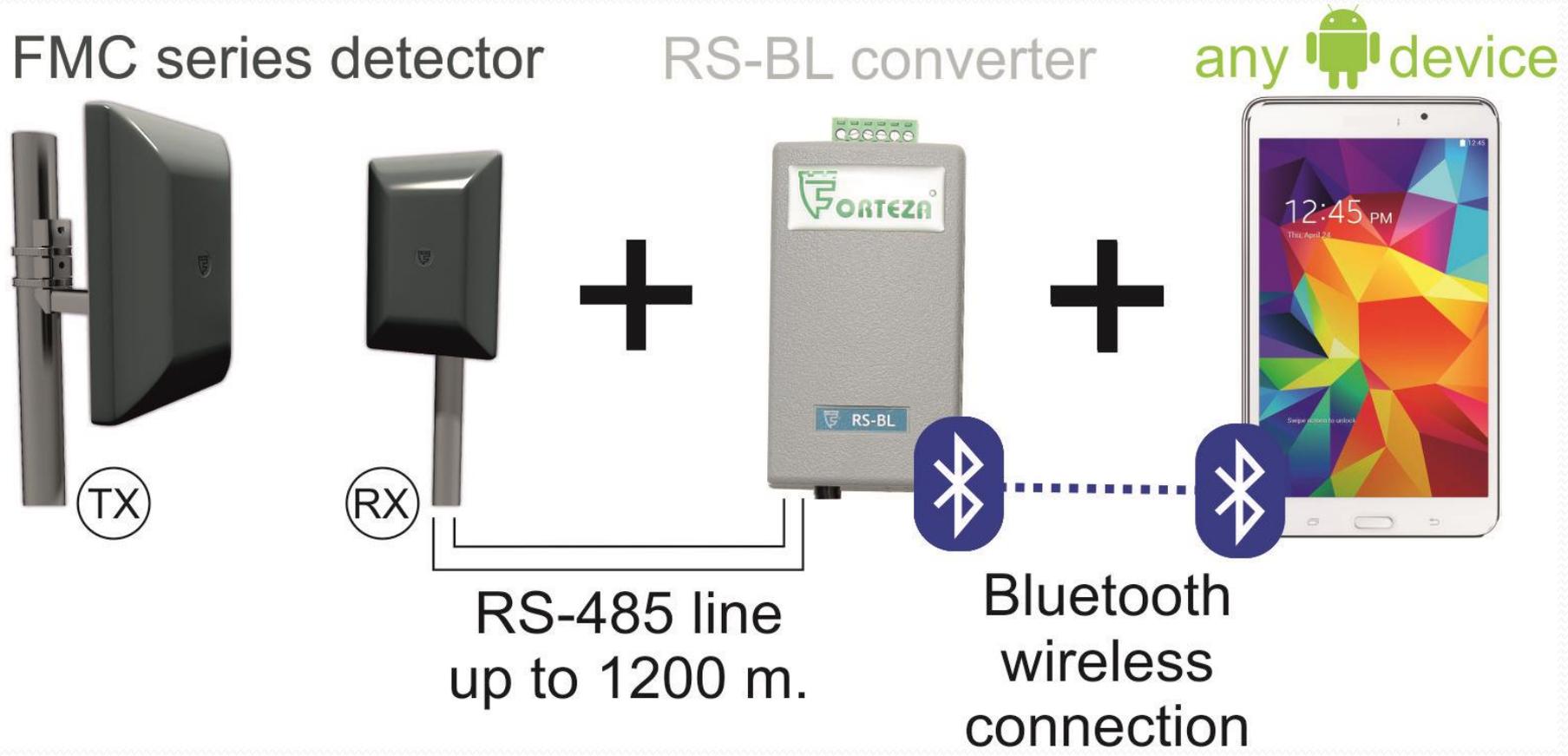


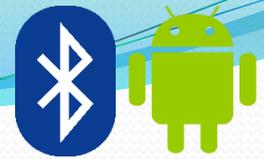


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# Converter connection wirelessly via Bluetooth





# Run software

- 1) Start the “FORTEZA FMC” software for Android device (which you can download for free from the Google Play)
- 2) On the first screen select “Connection type” Bluetooth
- 3) Select “Bluetooth”, find and choose yours RS-BL (number is written on the product) and click “Connect”.

Forteza Android  
Setup Software  
v1.0.153



Web: <http://forteza.com>

Email: [forteza@forteza.com](mailto:forteza@forteza.com)

Tel: [+370-46-441195](tel:+370-46-441195)

## Connection type:

USB (RS485)

Bluetooth

Empty device list



Connect



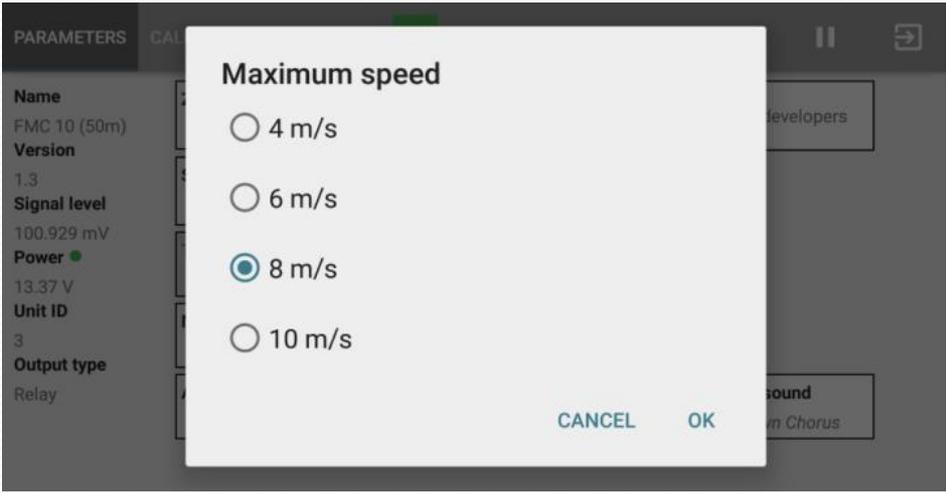
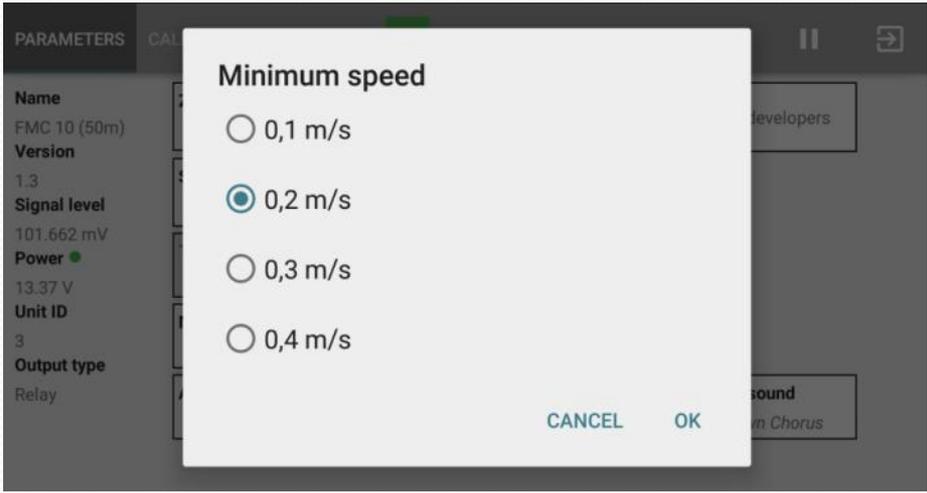
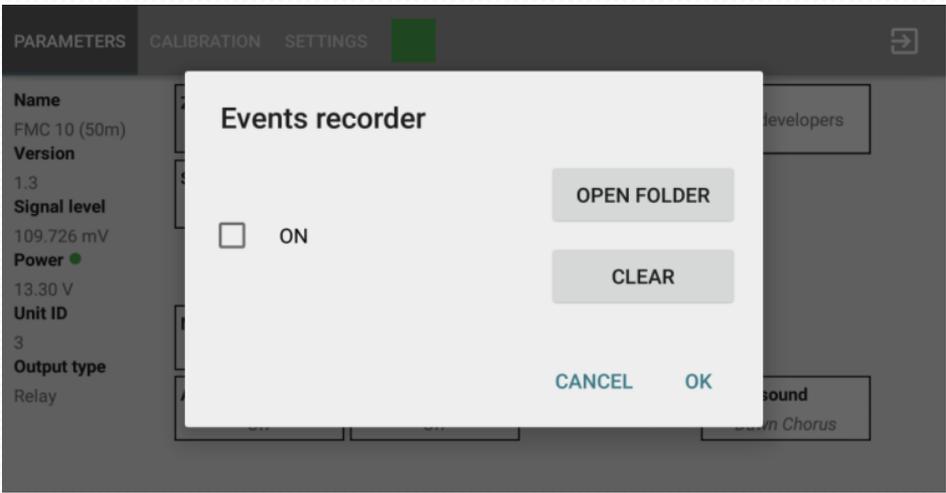
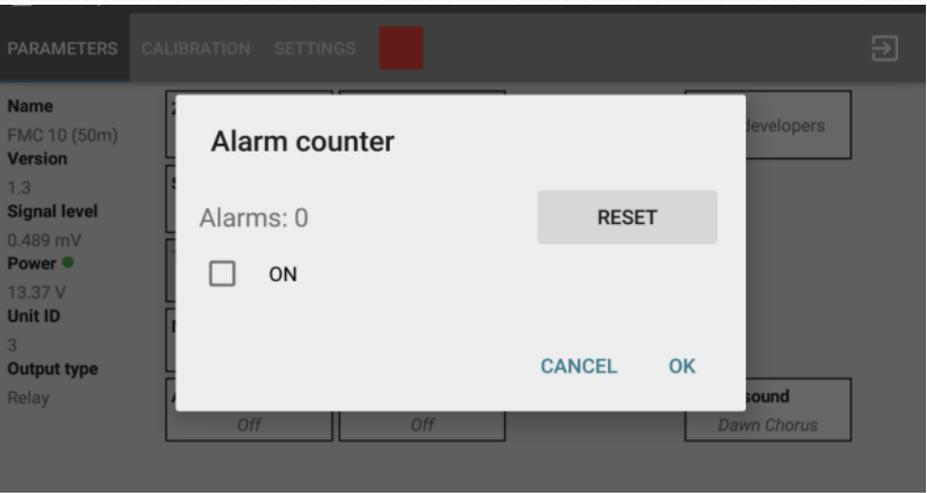
# About parameters

- In PARAMETERS bookmark: you can see the current setting. NAME: FMC 10 (50m) Signal level 153,470 mV Power 13,41 Unit ID 3

PARAMETERS	CALIBRATION	SETTINGS	
<b>Name</b> FMC 10 (50m)	<b>Zone length</b> 10 m	<b>Sensitivity</b> 70	For developers
<b>Version</b> 1.3	<b>Setup method</b> Auto		
<b>Signal level</b> 153,470 mV	<b>Threshold PL</b> 34	<b>Threshold LL</b> 34	<b>Threshold HL</b> 47
<b>Power</b> ● 13,41 V	<b>Min speed</b> 0,2 m/s	<b>Max speed</b> 8 m/s	
<b>Unit ID</b> 3	<b>Alarm counter 0</b> Off	<b>Events recorder</b> Off	<b>Alarm sound</b> Default sound
<b>Output type</b> Relay			



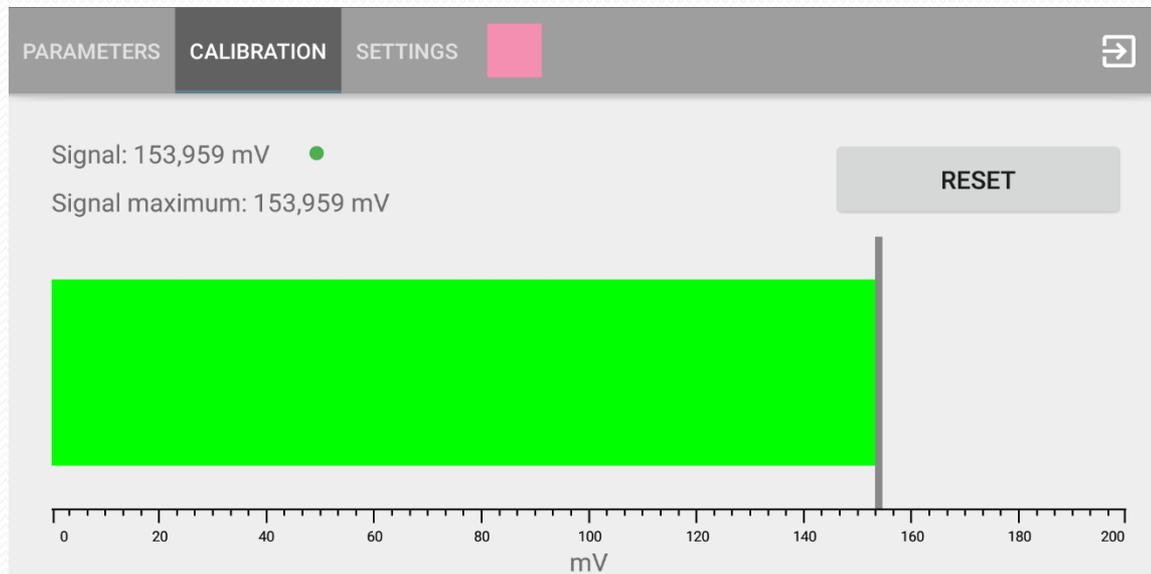
# Additional set up functions:





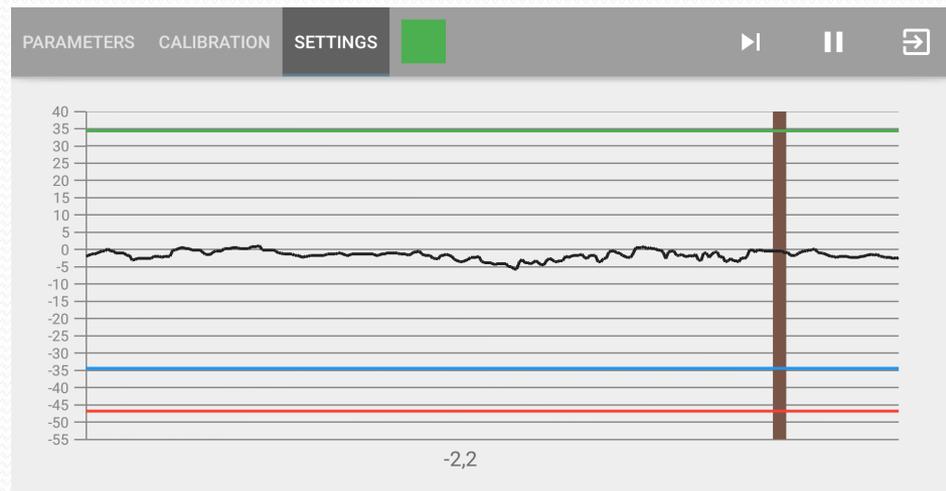
# About calibration

- Before any changes in PARAMETERS bookmark, you need to calibrate your detector. You can make it if you select CALIBRATION bookmark.
- CALIBRATION directed the transmitter-receiver, receiver-transmitter to obtain maximum signal.



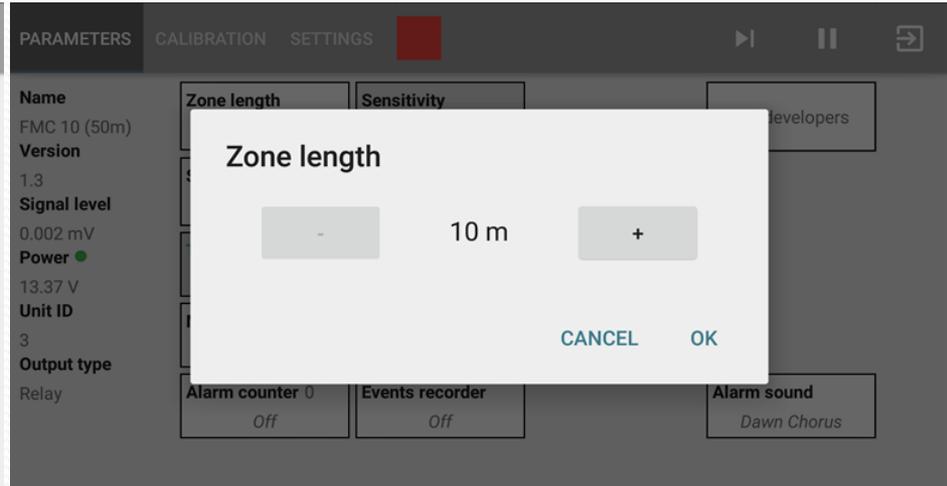
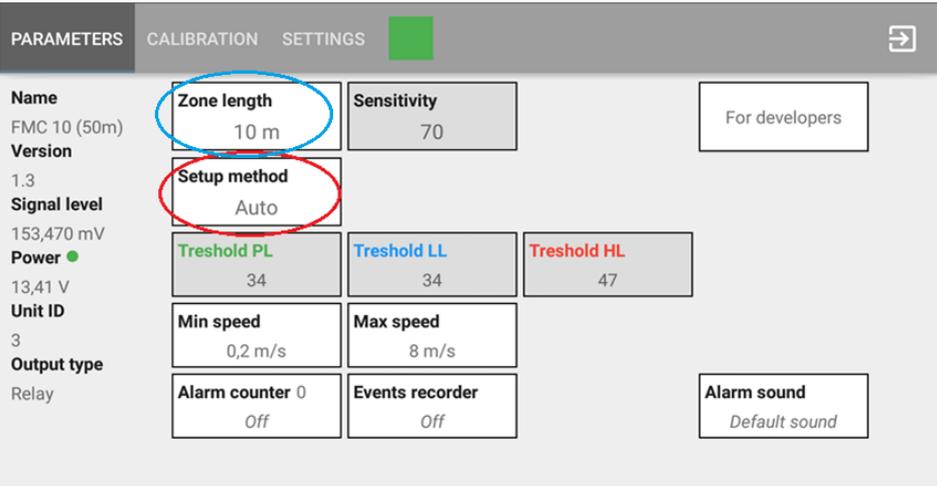
# About settings

- After successful calibration you can select SETTINGS bookmark. Here you can see signal which receiver receive from transmitter, influences from objects in detection zone or near detection zone. ALARM then intruder cross the detection zone.



# Setup method: Auto

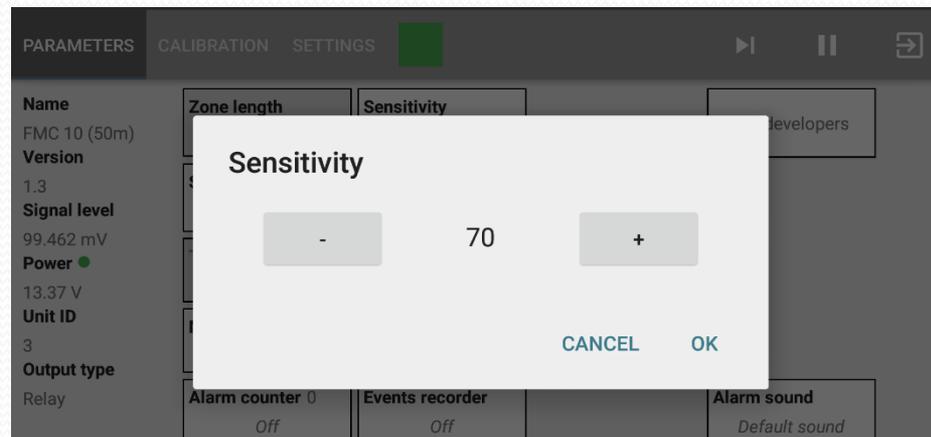
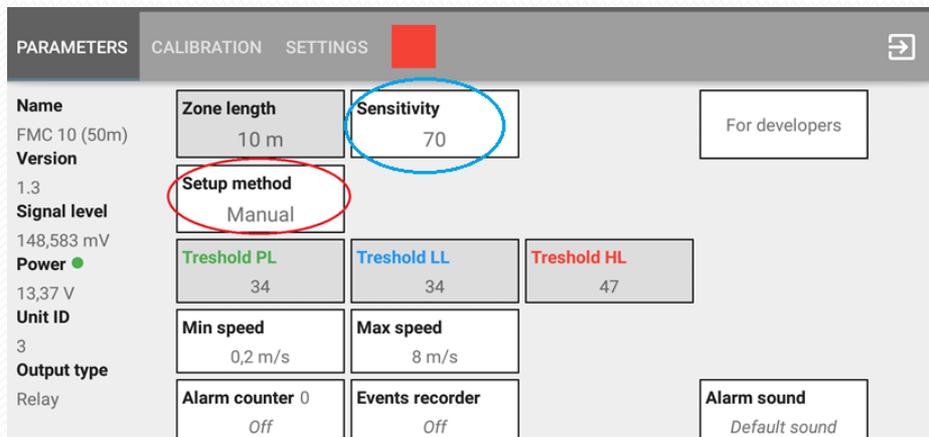
- In most of the case “Auto” mode and default sensitivity value is recommended. The most important is to set the proper “Zone length” according to the installation site, sensitivity value will be set up automatically.





# Setup method: Manual

- In “Manual” setup method you can set “Sensitivity”. The most important is to set the proper “Sensitivity” according to the installation site, intruder type.





# Setup method: Special 1

- In “Special 1” setup method you can set “Treshold” levels manually. It is use for special territories/objects were you can’t use “AUTO” or “MANUAL”. The most important is to set the proper “Treshold” according to the installation site, intruder type.

PARAMETERS	CALIBRATION	SETTINGS	
Name	Zone length		For developers
FMC 10 (50m)	10 m		
Version	Setup method		
1.3	Special 1 - PL, LL, HL		
Signal level	Treshold PL	Treshold LL	Treshold HL
150,049 mV	34	34	47
Power	Min speed	Max speed	
13,41 V	0,2 m/s	8 m/s	
Unit ID	Alarm counter	Events recorder	Alarm sound
3	Off	Off	Default sound
Output type			
Relay			

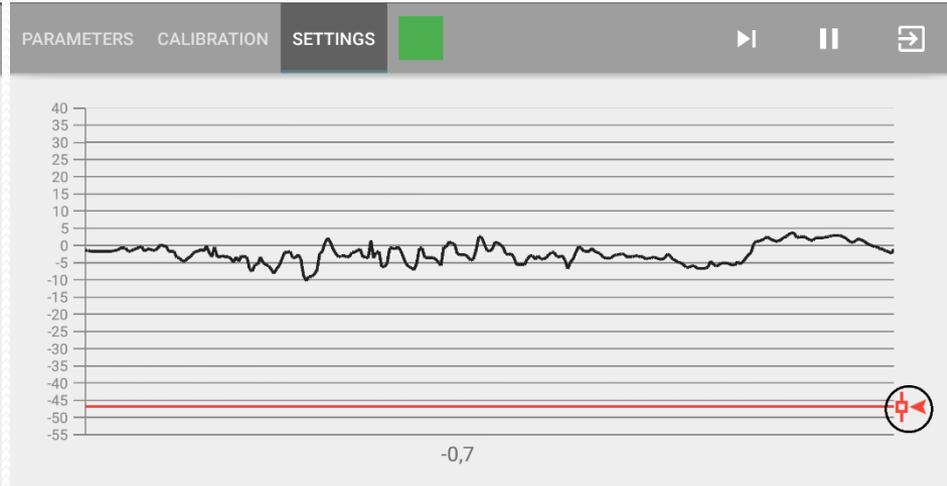




# Setup method: Special 2

- In “Special 2” setup method you can set “Treshold” level manually. This method use if protection zone is lower than 100 meters. The most important is to set the proper “Treshold” according to the installation site, intruder type.

<b>PARAMETERS</b>	<b>CALIBRATION</b>	<b>SETTINGS</b>
Name FMC 10 (50m)	Zone length 10 m	For developers
Version 1.3	Setup method Special 2 - HL	
Signal level 149,071 mV	Threshold HL 47	
Power ● 13,37 V	Min speed 0,2 m/s	Max speed 8 m/s
Unit ID 3	Alarm counter 0 Off	Events recorder Off
Output type Relay		Alarm sound Default sound





# Contact us

Address: Tilzes str. 38 91112 Klaipeda, Lithuania

Tel.: +370-46-441195

fax: +370-46-412231

e-mail: [forteza@forteza.com](mailto:forteza@forteza.com)

web: [www.forteza.eu](http://www.forteza.eu)