



FMC Series detectors calibration and adjustment using android platform and RS-BL converter connected by USB cable

FMC series detector



RS-BL converter



any  device





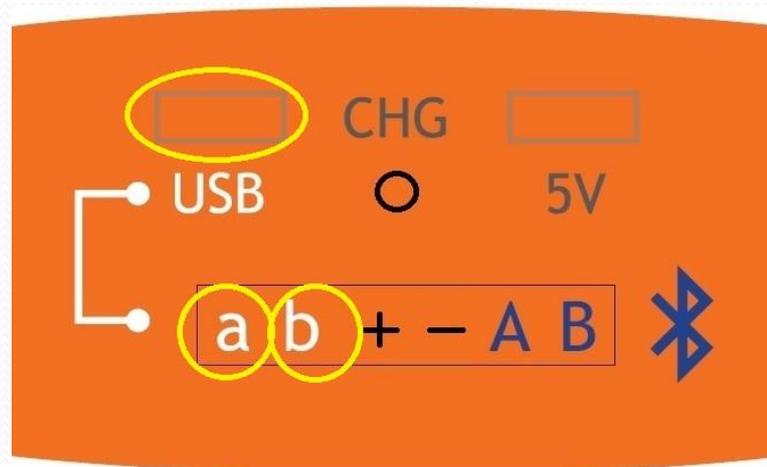
The RS-BL converter consists of two independent converters inside:

- 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 USB (RS)

- 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“ RS converter connection terminal*) and another end of the cable to the sensor.



- The next, connect with Micro USB - USB cable (included to the delivery set) RS-BL and your computer.

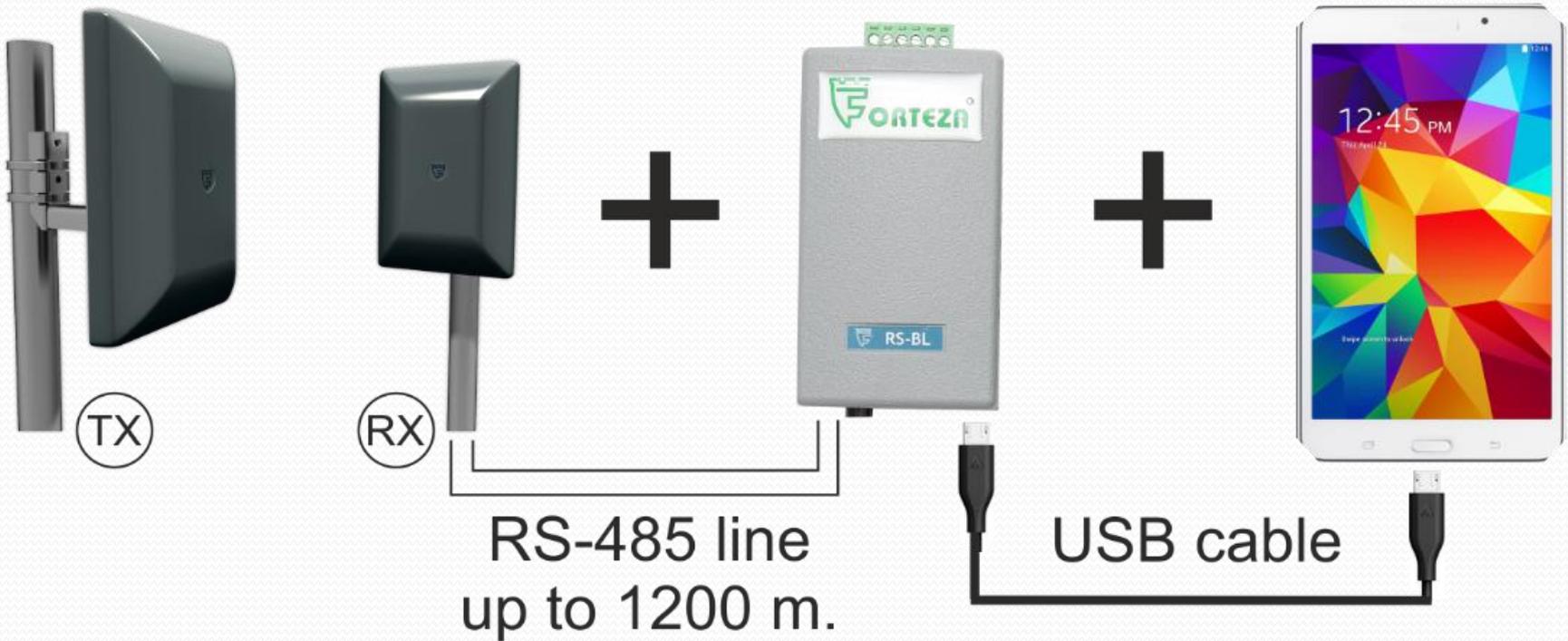


Converter connection over the USB wire communication line

FMC series detector

RS-BL converter

any  device





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” USB (RS485)

Forteza Android
Setup Software
v1.0.153



Web: <http://forteza.com>

Email: forteza@forteza.com

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

Connection type:

USB (RS485)

Bluetooth

Connect



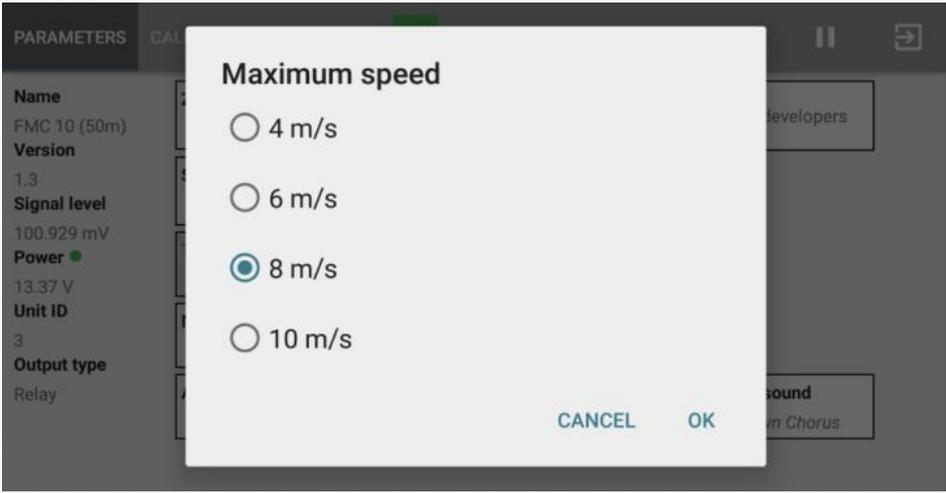
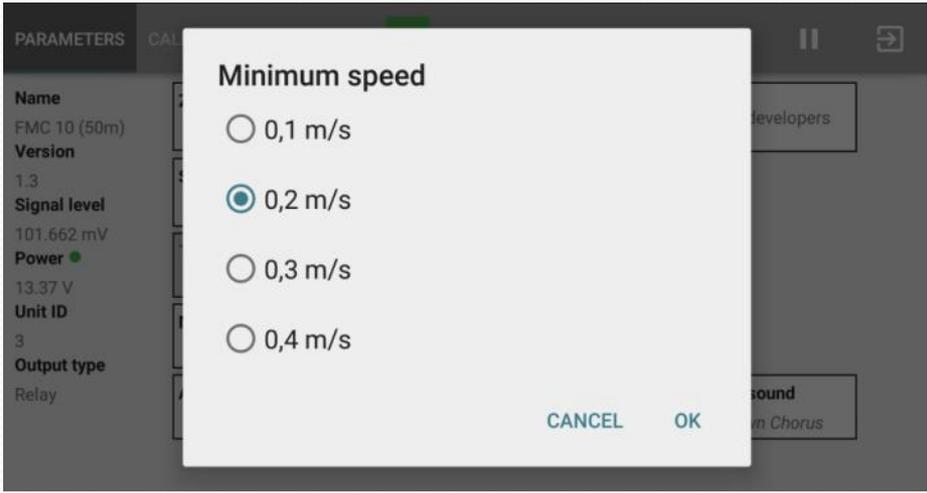
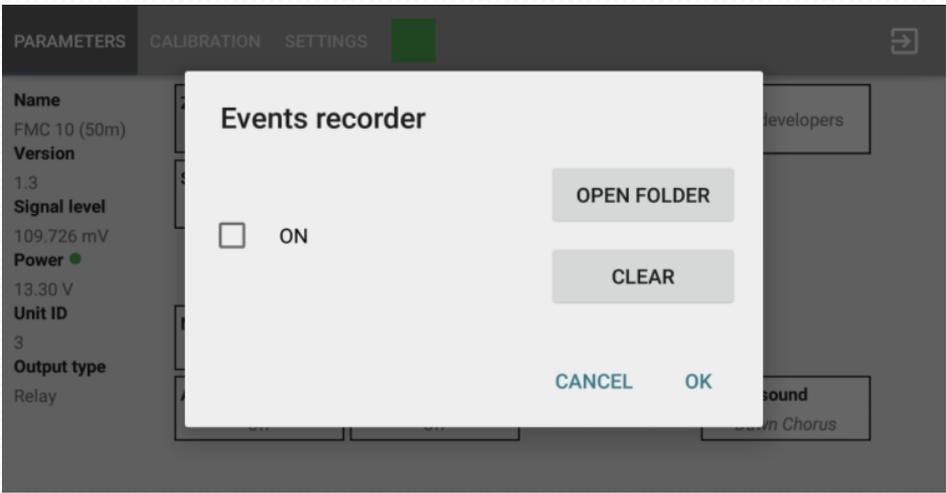
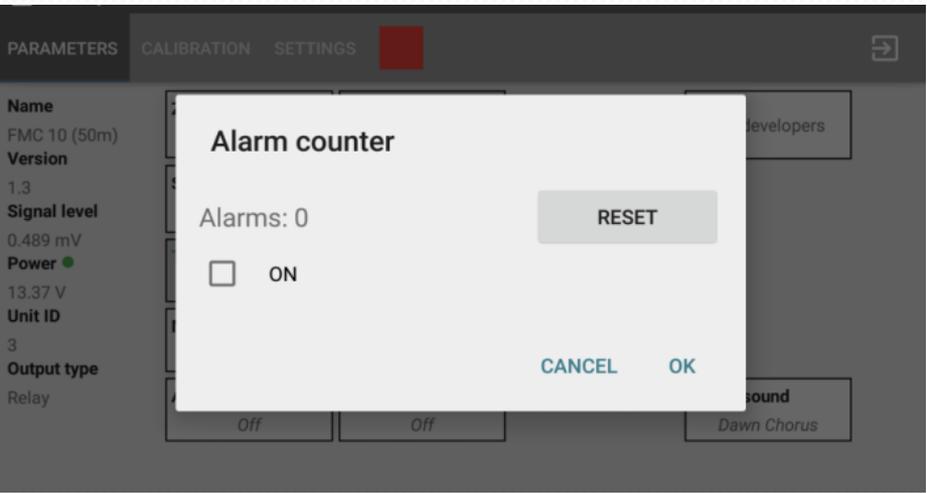
About parameters

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



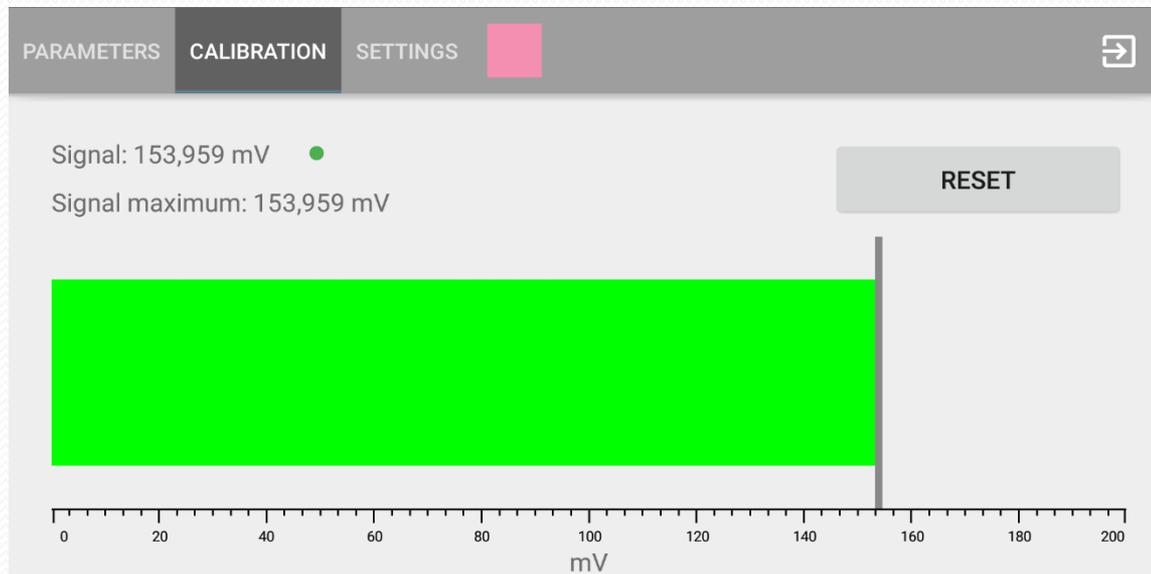
Additional set up functions:





About calibration

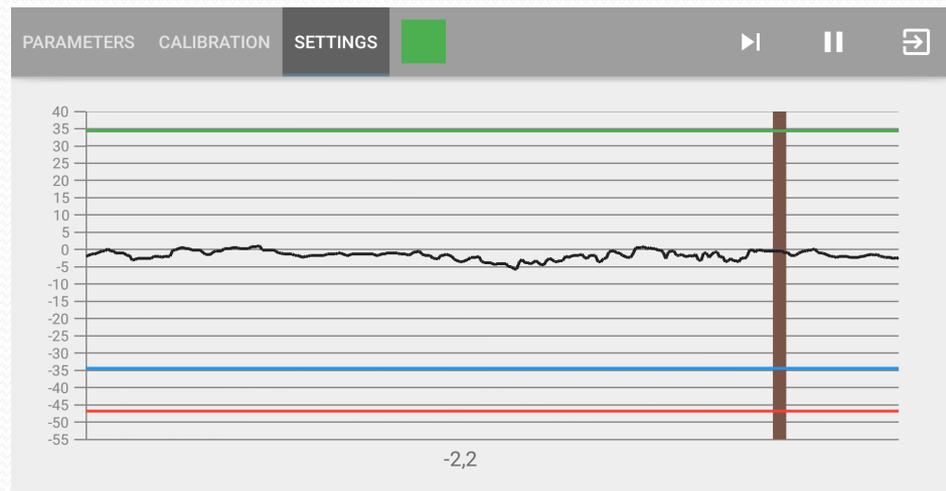
- Before any changes in PARAMETERS bookmark, you need to calibrate your detector. You can make it if you select CALIBRATION bookmark.
- CALIBRATION directed the transmitter-receiver, receiver-transmitter to obtain maximum signal.





About settings

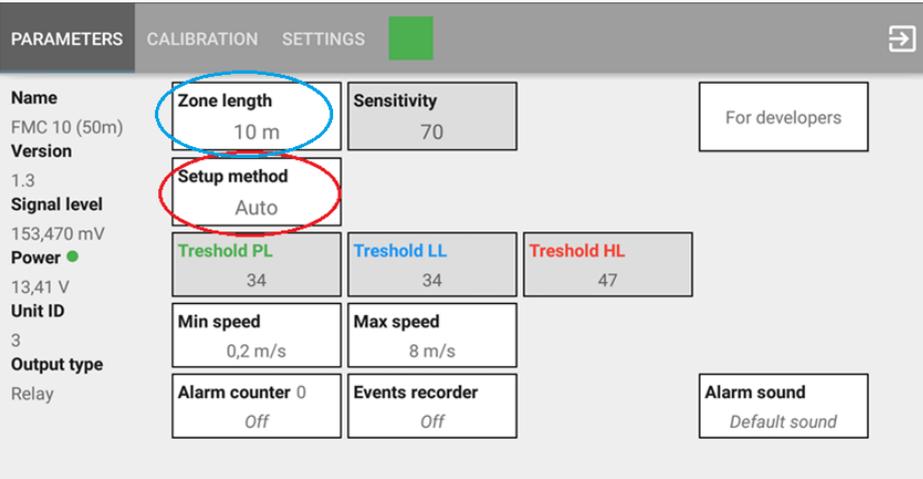
- After successful calibration you can select SETTINGS bookmark. Here you can see signal which receiver receive from transmitter, influences from objects in detection zone or near detection zone. ALARM then intruder cross the detection zone.



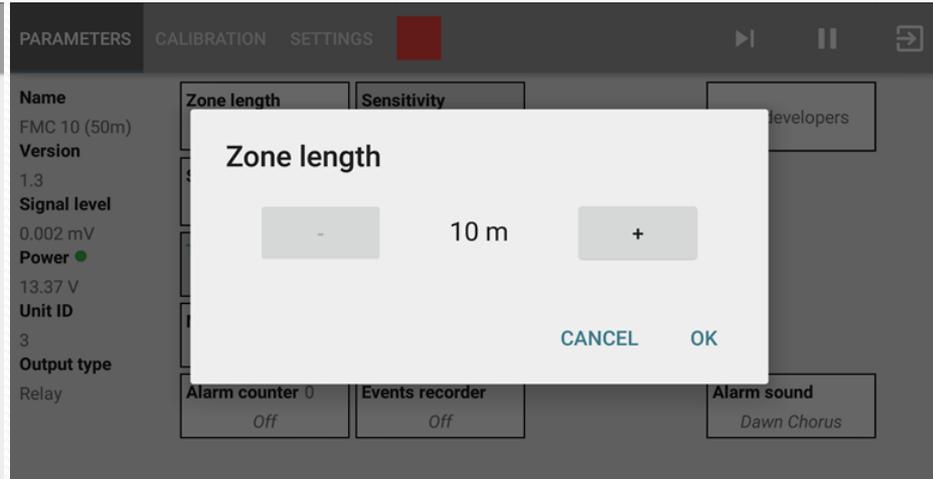


Setup method: Auto

- 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.



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

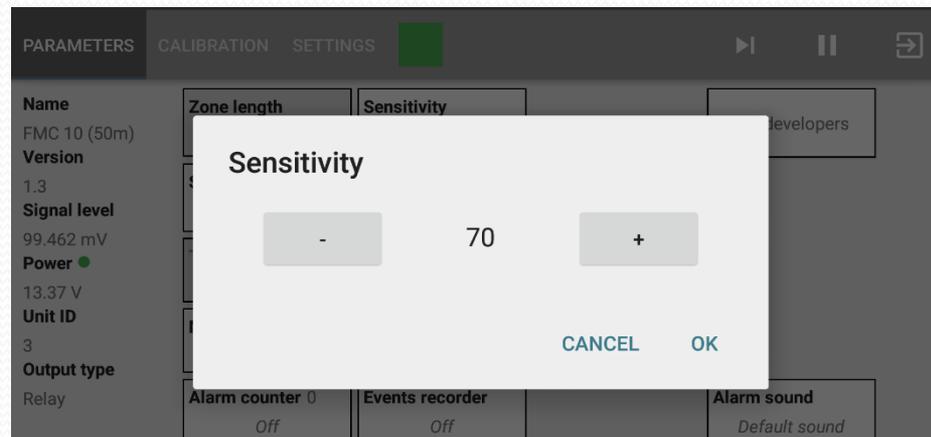
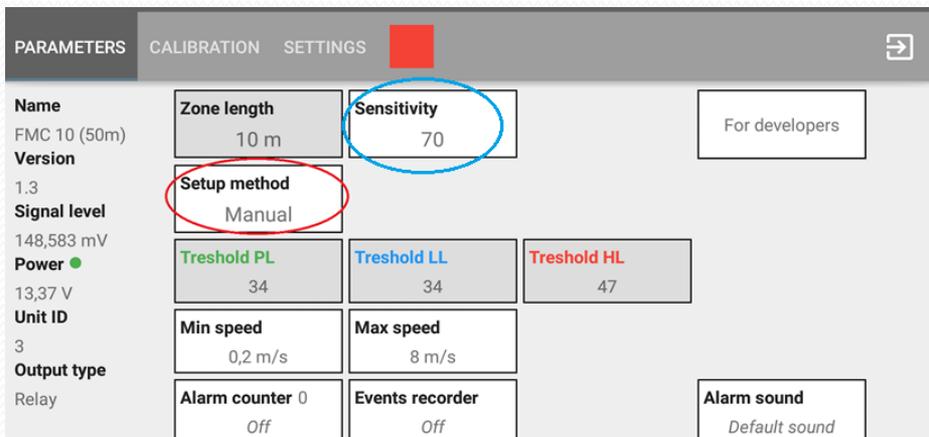


PARAMETERS	CALIBRATION	SETTINGS
Name FMC 10 (50m)	Zone length 10 m	Sensitivity 70
Version 1.3	Setup method Auto	For developers
Signal level 0.002 mV	Threshold PL 34	Threshold LL 34
Power ● 13.37 V	Threshold HL 47	
Unit ID 3	Min speed 0,2 m/s	Max speed 8 m/s
Output type Relay	Alarm counter 0 Off	Events recorder Off
		Alarm sound Dawn Chorus



Setup method: Manual

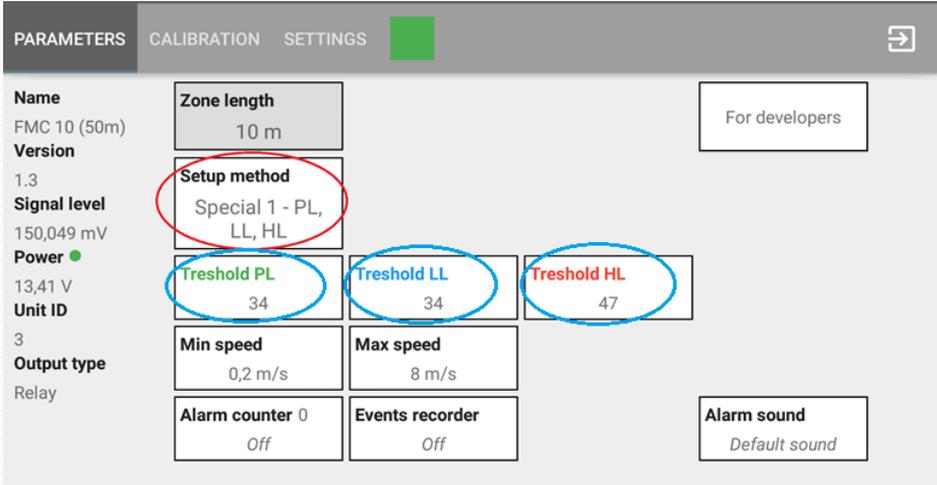
- In “Manual” setup method you can set “Sensitivity”. The most important is to set the proper “Sensitivity” according to the installation site, intruder type.





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.



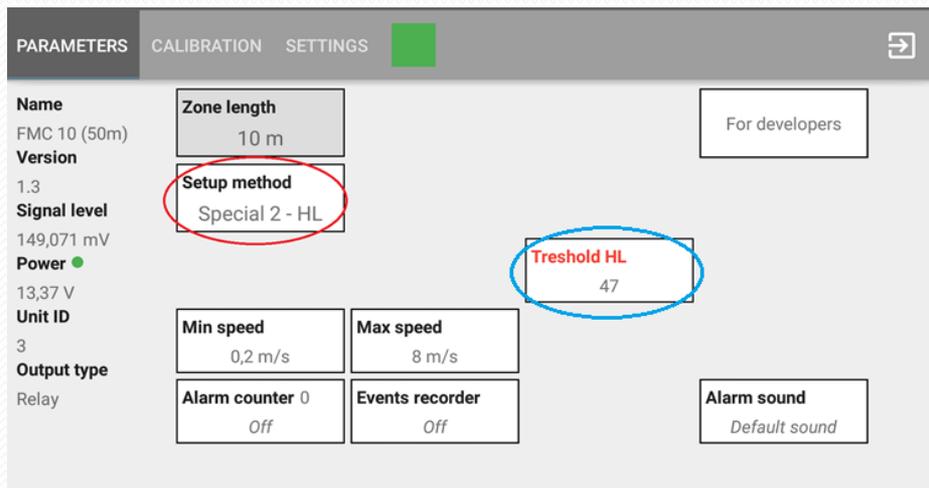
PARAMETERS	CALIBRATION	SETTINGS	
Name FMC 10 (50m)	Zone length 10 m		For developers
Version 1.3	Setup method Special 1 - PL, LL, HL		
Signal level 150,049 mV	Treshold PL 34	Treshold LL 34	Treshold HL 47
Power ● 13,41 V	Min speed 0,2 m/s	Max speed 8 m/s	
Unit ID 3	Alarm counter 0 Off	Events recorder Off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



PARAMETERS CALIBRATION SETTINGS

Name
FMC 10 (50m)

Version
1.3

Signal level
149,071 mV

Power ●
13,37 V

Unit ID
3

Output type
Relay

Zone length
10 m

Setup method
Special 2 - HL

Treshold HL
47

Min speed
0,2 m/s

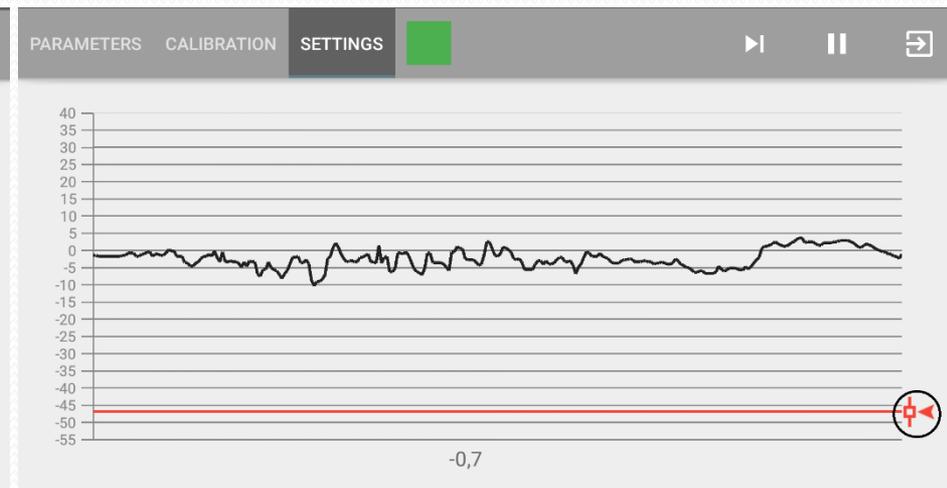
Max speed
8 m/s

Alarm counter 0
Off

Events recorder
Off

For developers

Alarm sound
Default sound





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