

SBPCAL



Wireless sensors calibration unit



Benefits

- **Hand-held configuration tool.** It works with both SBPWSI1 and SBPWSI2 wireless sensors.
- **Plug & Play.** It is automatically recognized and configured to work with Windows 10 / 7.
- **Offline installation.** It does not require an Internet connection during sensors installation.

Description

SBPCAL is a hand-held tool designed to calibrate, test and manage the SBPWSI1 and SBPWSI2 wireless sensors one by one or in group. It communicates with them via the Long Range wireless protocol.

Applications

Parking Guidance Systems

Main functions

- Calibration, configuration, maintenance of SBPWSIx wireless sensors.

Structure

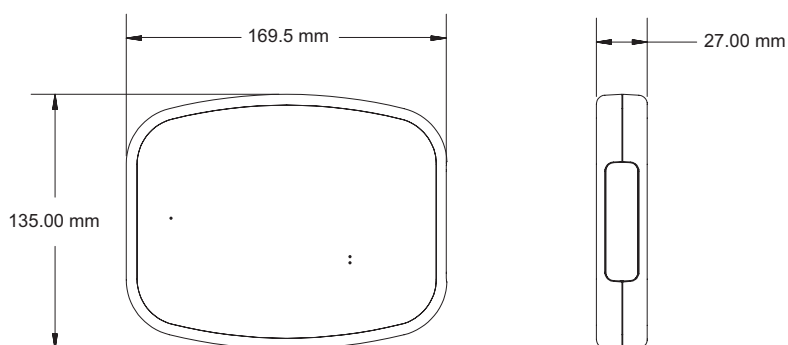


Element	Component	Function
A	"ON" LED (red)	Power supply status: ON: power supply ON OFF: power supply OFF
B	"Rx" and "Tx" LEDs (red)	Communication to SBPWSix sensors: Rx ON: receiving messages from SBPWSix sensors OFF: no messages from SBPWSix sensors Tx ON: ongoing communication with SBPWSix sensors OFF: no communication with SBPWSix sensors
C	USB male port with cable	Supply and programming

Features

General

Material	Gray plastic (ABS)
Dimensions	See picture below
Weight	100 g
Protection degree	IP54



Environmental

Operating temperature	-10 to 50°C (-14 to 122°F)
Storage temperature	-40 to 80°C (-40 to 176°F)
Humidity (non-condensing)	0 to 100% RH

Compatibility and conformity

Approvals	CE
Conformity	EMC 2014/30/UE LVD 2014/35/UE

Power Supply

Power supply	Via USB port
Type	USB 2.0 type A
Cable length	1 m
Voltage	5 V
Current consumption	100 mA

Communication

Protocol	Long Range wireless
Operating frequency	ISM, 863-870 MHz (EU)
Transmission power	<14dBm (25mW)
Communication distance	25 m max
Antenna	Integrated

Installation

Step	Action	Description
1	Connection	SBPCAL must be connected to a Microsoft Windows 10 / 7 Computer via the USB port (2.0 or higher).
2	Automatic configuration	SBPCAL is automatically recognized and configured.
	Manual configuration	Download the driver from the FTDI Internet site and install SBPCAL manually (see further readings).
3	Download and execute the Sensor Manager software	Download it from www.productselection.net .

Note: all the procedures and commands are described in the Sensor Manager User manual available on www.productselection.net (see further readings).

References

Further reading

Information	Document	Where to find it
Serial driver	FTDI driver	https://www.ftdichip.com/Drivers/VCP.htm
User manual	Sensor Manager software	www.productselection.net/MANUALS/UK/SPS_user_manual.pdf

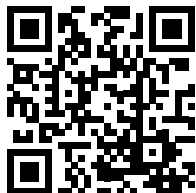
Order code



SBPCAL

CARLO GAVAZZI compatible components

Purpose	Component name/code key	Notes
Long Range wireless/LoRaWAN® wireless sensor	SBPWS11	
NB-IoT wireless sensor	SBPWSI2	
Controller	UWP30RSEXXX	
Carpark server	SBP2CPY24	



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