

Instruction manual



Pacetell Original

PT Solar panel · PT Log · PT Warning light

PACETELL®

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Please read the entire instruction manual before use and save it for future reference. We do not take any responsibility for any possible text or image errors, neither for technical data changes. In case of technical problems or other questions, please contact our customer service.

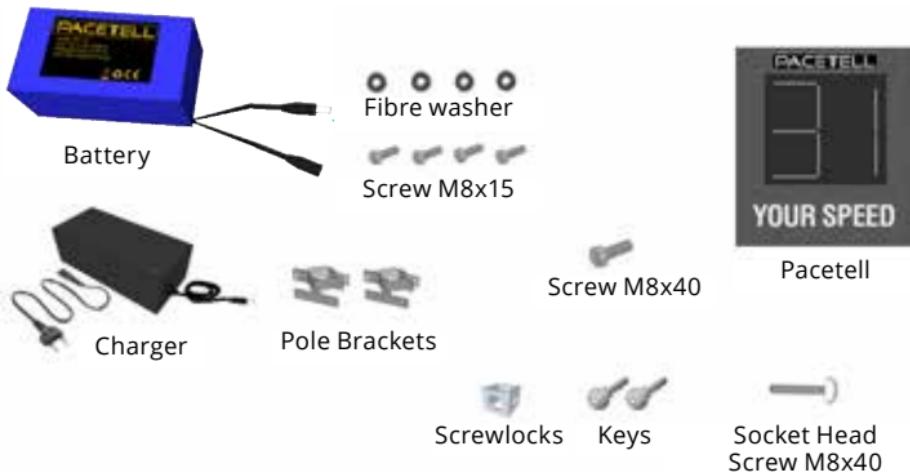


Tools and equipment needed for installation:

- **Phillips screwdriver**
- **Large screwdriver** (solar panel installation)
- **Allen key size 6mm**
- **Adjustable spanner/ fixed 13mm socket wrench**

Pacetell original

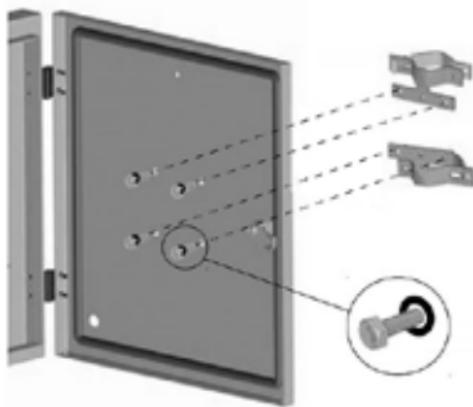
PaceTell Original speed display is primarily constructed of a radar and it has a low power consumption in standby mode. The speed of the arriving vehicle is shown with red, bright numbers when the posted speed is exceeded and flashes when the speed is exceeded by 0-20 km/h (adjustable). It is powered by either a rechargeable 12-volt Li-ion battery (with up to six weeks of operating time), a solar panel or a fixed connection to a power source. The product is built into a powder-coated aluminium housing with a key lock. The display window is made of Makrolon plastic that can withstand impacts, stone throwing and gunshots from air rifles. The sign is mounted with the included standard pole brackets fitted with screw locks. The housing is equipped with 4 M6 threaded holes on the front for mounting a custom front sign (accessory). The front side has the text YOUR SPEED in a reflective yellow colour.



Installation

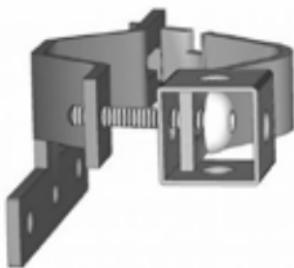
1.

Install the four M8 bolts and fibre washers from the inside of the cabinet, which are then screwed into the post brackets



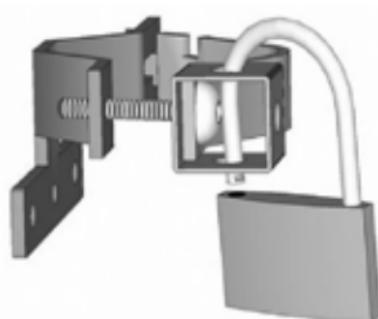
2.

Hold the housing against the post, then mount the second part of the post bracket with the screw lock, secure with M8 socket head cap screw (see image).



3.

Put a padlock through the screw key. (Padlock not included)



Getting started. See images on the next page

Start-up

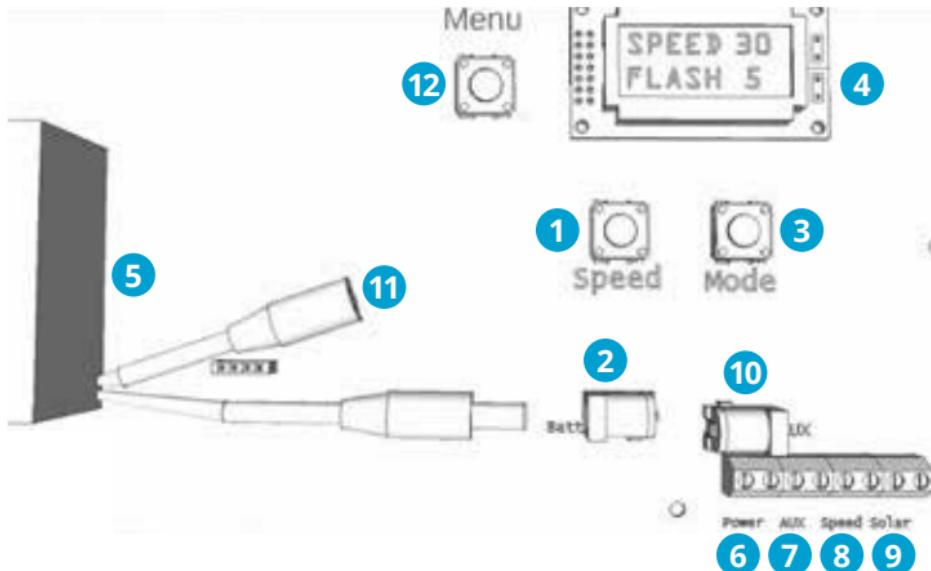
Connect the battery to the socket marked “**Batt**” **2** and the display shows Pacetell Loading, the display lights up and shows the set speed limit. (*Speed-Flash*)

Setting the speed limit

Press the “**Speed**” button **1**, the text starts flashing. Press “Speed again and the display will increase by 10km/h for each button press until it shows 70, then it will start again from the number 3 (3,10,20,30,40,50,60,70). When the display shows the speed that you want to set, wait about 5 seconds until the text stops flashing and then the speed limit is programmed.

Setting the flashing function “Flash”

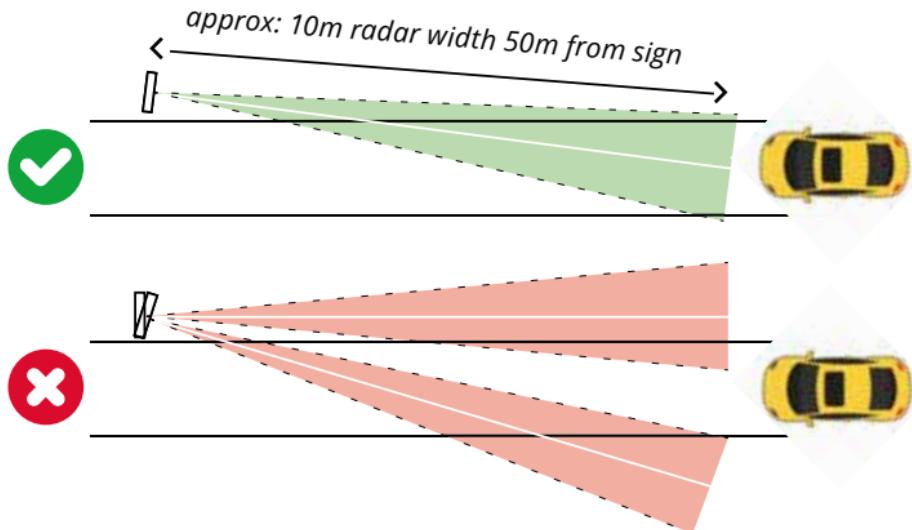
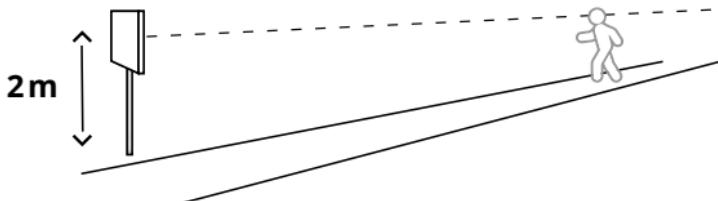
Flash indicates the speed over the set speed limit where the numbers start flashing. Press the “**Mode**” button **3**, the text will start flashing. Press again and the display will increase by 1 km/h for each button press until it shows 20, then it will start again from 0. When the display shows the limit you wish to set, wait about 5 seconds until the text stops flashing and then the setting is complete.



- 1** Speed limit setting button.
- 2** Battery connector.
- 3** Button for setting the flashing function.
- 4** Setting display
- 5** Battery
- 6** 12V DC -input for fixed installation
- 7** Output additional accessories for fixed installation.
- 8** Input external speed button.
- 9** Input for solar panel charger 12-17VDC
- 10** Output additional accessories
- 11** Battery charger connector
- 12** Menu button. Advanced setting.

Setting the radar area.

Set the speed limit to 3 km/h, see page 4. Close the housing with the key. Stand behind the housing and point it at a point where traffic comes about 50 metres away. See image below. Check by walking towards the sign from about 30 m. Adjust until the sign gives a rash in the middle of the road field. Change the speed limit to the current one.



Charging the battery.

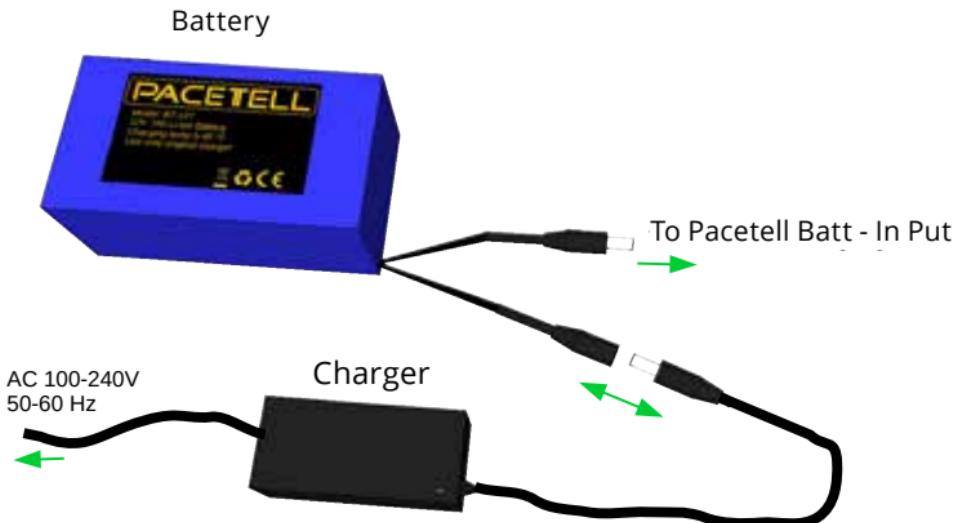
Note: Use only the original charger!

Connect the charger to the battery charger connection.

When properly connected, the red light turns on. When the battery is fully charged, the red lamp changes to green.

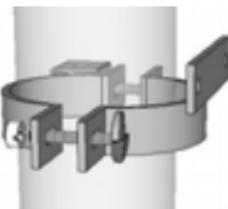
(Approx. 24 hours of charging time when the battery is completely discharged.)

Connecting the Pacetell to constant or periodic mains electricity (for example: street light).



Mounting the post brackets above 76 mm.

Note: auxiliary equipment

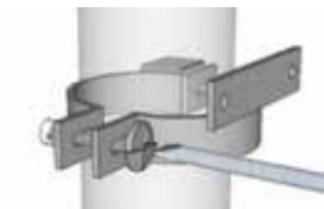


*Install the pole mount with the one-way screw and a round nut on one side.
Turn the nut so that the notches are on the inside, facing the pole.*



Mount the other side of the pole bracket with the socket head cap screw, locking bar and a round nut. Turn the nut so that the notches are on the inside, facing the post bracket.

Tighten the one-way screw with a large screwdriver.



Then tighten the socket head cap screw with the Allen key firmly. Install a pad-lock through the hole in the locking bar.

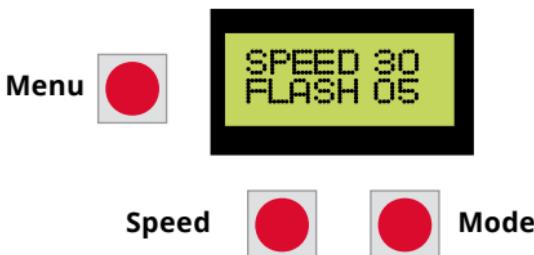


Dismounting the pole mount.

*Remove the lock, unscrew the socket head cap screw completely.
Now the one-way screw can be removed manually.*

Advanced settings.

Changes here should only be made by the installer or when instructed by Pacetell Ltd.



Use the **Menu** button to scroll through the settings. Each button press will take you to the next selection of setting as shown below.

The Speed & Mode buttons make changes, such as **On/Off** or **+ / -**, when needed.

- 1 →

Press and hold the “**Menu**” button for about 5 seconds. The display changes to display battery status.
- 2 →

AUX1 output setting:
See “warning light and text sign” manual
- 3 →

Flashing AUX-output setting:
See “warning light and text sign” manual

4

AUX2 output setting:

See manual for "text sign"

AUX.2 ON
+ 5 -

5

Setting the maximum speed shown on the display:

*Shows the speed over the set "SPEED" when the display stops showing the speed. Used to prevent "drag race" against the display. Increase or reduce using the **Speed & Mode** buttons.
(Factory setting is 40km/h above set limit speed.)*

HILIM
+ 40 -

6

Should not be changed. Radar sensitivity settings:
*a smaller number means less sensitivity. Increase or reduce with the **Speed & Mode** buttons.*

SENSE
+ 7 -

7

Should not be changed. Radar reinforcement settings:
*a smaller number means less reinforcement. Increase or reduce with the **Speed & Mode** buttons.*

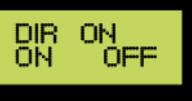
AMPLI
+ 2 -

8

Demo LEDs: must stand on OFF. Not normally used.
*ON=the display shows the pre-set speed + flash. OFF or ON with the **Speed & Mode** buttons.*

DEMO OFF
ON OFF

9



Direction-dependent display: Must stand on ON. ON=The display shows the speed of the vehicles moving towards the display. OFF=The display shows the speed against and from the display. OFF or ON using the **Speed & Mode** buttons.

10



Display ON/OFF: Is used to register vehicles in a log without the display being lit. OFF=No digits appear on the display. OFF or ON with the buttons **Speed & Mode**.

11



Speed units: Shift between km/h, knot, mph.

12



Factory reset: Resets all values to factory values. Yes or No using the **Speed & Mode** buttons.

13



All changes are saved.

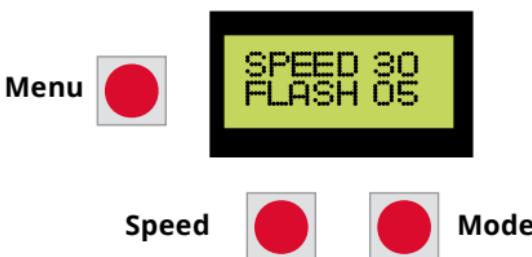
14



Ready.

Setting own speed limit

If you want a speed limit different from 10, 20, 30, 40, 50, 60, 70. Example, 18, 25, 32.



How to increase the speed limit at only 1 km/h per button press.

- 1** Press and release the **Speed** button.
- 2** **Speed** and **Mode** should flash on the display.
Speed button to the desired speed limit. (If the display stops flashing, release **Menu** and press **Speed** once again.)
- 3** While the display flashes. Press and hold the **Menu** button at the same time as you increase with the **Speed** button to the desired speed limit.
- 4** Release all the buttons.
When the display stops flashing, the new speed limit is set.

NOTE: If you after this step only press **Speed**, the speed will increase by 10 up to 70. And then it starts over from 3, 10, 20, etc.

Technical specification

Radar: 24,125 GHz Doppler

Measurable speed: 3-99 km/h

Maximum measuring distance: Automobile 60 metres,
Lorry 80 metres

Radar angle: Horizontal 12 degrees, Vertical 25 degrees

Updating time: 0.1 sec

Display: red LEDs.

Number range: h 230 mm b 250 mm

Adjustable speed: 3, 10, 20, 30, 40, 50, 60, 70 km/h

Flashing: 0-20 km/h above the preset speed.

Power supply: 10-15 Volts power consumption maximum 1.2A,
standby 16mA

Operating temperature: -20 to + 60 C

Enclosure: powder-coated aluminum cabinet with a key lock

Display window: Polycarbonate/Makrolon IP Class: IP 65

Dimensions: 400 X 450 X 60

Weight: 4.3 kg (9.5 lbs)

Battery: Li-ion 12V 14Ah (rechargeable)

Battery charger: 110-240VAC/12V DC

AC/DC adapter: 110-240VAC /12VDC

CE: E814983U-04-EO, EMC 2004/108 / EC

2-year guarantee against manufacturing defects



MADE IN SWEDEN

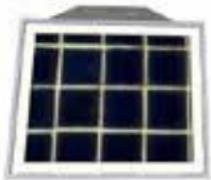


PT Solpanel

Product description

PT Solar panel charges the battery in PaceTell using the sunlight. The panel is mounted with the supplied pole bracket fitted with screw locks that can be locked with padlock.

This is included in the package



Solar panel



Screw lock



Locking plate



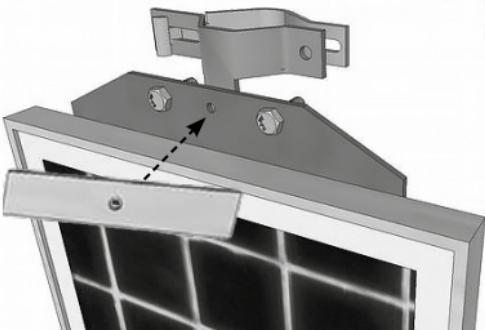
Pole bracket

Installation

1.

Secure the post bracket with the two M8-bolts, through the mounting plate and attach to the post bracket.

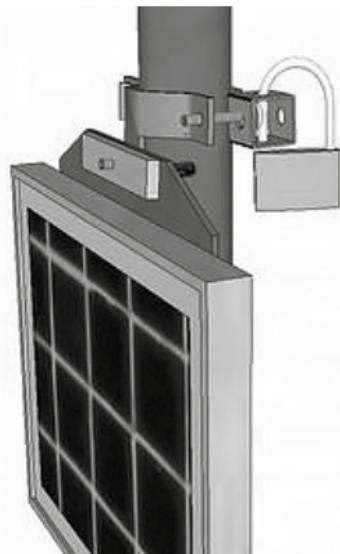
Screw the locking plate into place with the locking screw.



2.

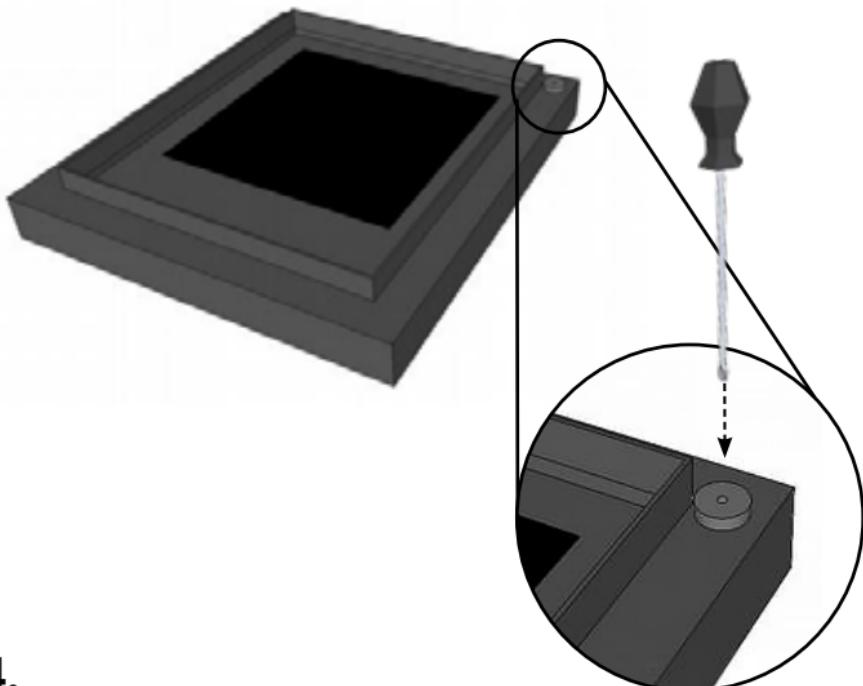
Mount the panel on the post with the screw lock and fasten with M8 socket head cap screw.
Point the panel to the SOUTH.

Put a padlock through the screw key.
(Padlock not included.)



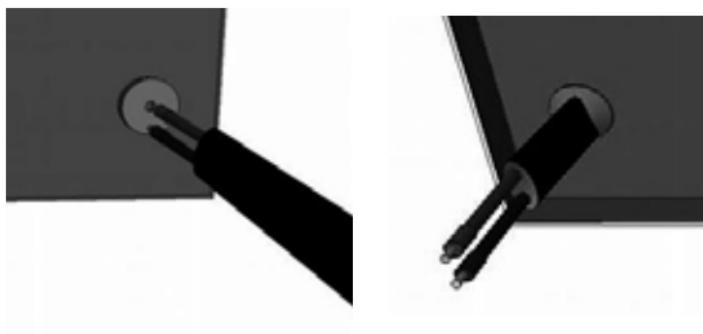
3.

Make holes in the rubber seal with a screwdriver.



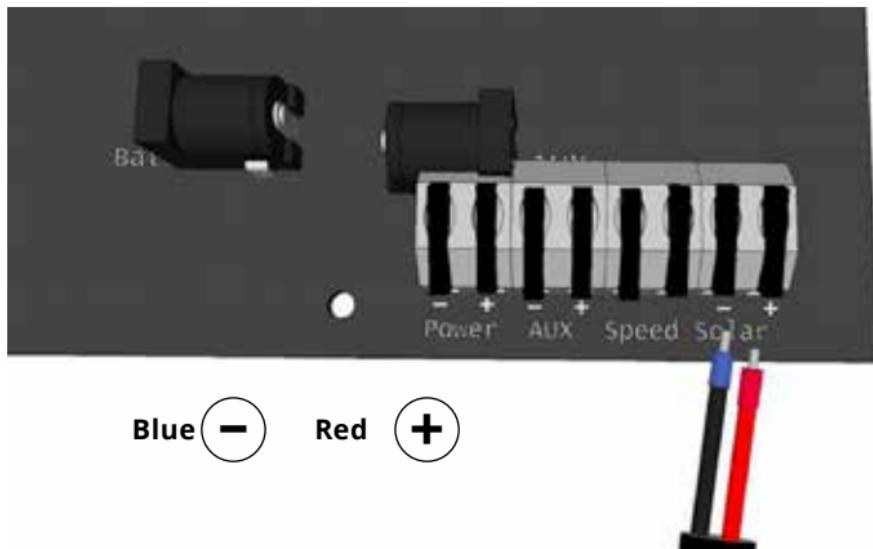
4.

Thread the cable through the rubber seal.



5.

Fold up the black Solar -&+ switches on the punch-down block. Insert the cables and fold the switches down to lock.



6.

To test the solar panel, disconnect the battery. If the display shows text, the connection is OK. (Can only be tested if the sun shines.)



Cleaning

For better efficiency, regularly clean the glass surface gently with a damp cloth.

Safety

When working with the display, disconnect the solar panel, otherwise the display will still have electricity.

Technical specification.

Output voltage: 17 Volt

Power outlet: 560mA

Maximum power: 10 Watts

Operating temperature: -40 to + 80 C

IP Class: IP 44

Dimensions: 315 X 315 X 20

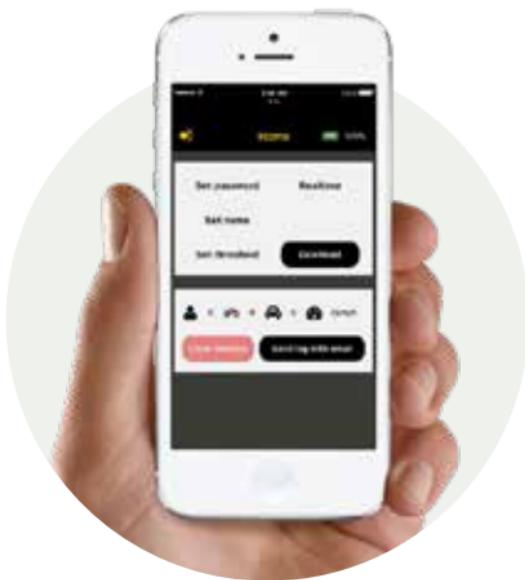
Weight: 1.25 kg (2,7 lbs)

CE: RoHS 2011/65/EU

2-year guarantee against manufacturing defects



MADE IN SWEDEN



PT Logg

Product description

PT Logg registers the speed, direction and time of the passing vehicles. This data can then be used in a spreadsheet to deepen your analysis.

Installation

Download the "PaceTell" app from the App Store or Play Store. (*Requires Iphone, Ipad or smartphone with Bluetooth 4.*)

Launch the app in front of your PaceTell Log, which should be turned on. (*maximum 10 m*)

Tap "**New Device**".

Password= admin





Overview

- 1 Tap to exit (Iphone and Ipad).
- 2 The name of this device.
- 3 Battery charge.
- 4 Tap to change your password for this device.
- 5 Tap to change the name of this device.
- 6 Tap to set the minimum speed recorded on this device.
- 7 Tap to see the speed of the passing vehicles.
- 8 Tap to download all data and send the data to an e-mail.

Change password

Tap **4** to enter your new password 2 times + tap the Change button.

NOTE: IMPORTANT! write down the new password. There is no way to reset the password except by sending the device to Pacetell for reprogramming.

However, the password is stored in the device that you change.



Change name

Tap **5** to enter your new name on your device + tap Change.



See the speed of the passing vehicles

Tap 7 Realtime. When the vehicle passes, the date, time, speed and direction come up in a list.



Change logging limit

Tap 6 Set Treshold.

Enter the minimum speed to be stored in the log, finish by tapping Change.



Start logging

Tap Clear memory.

Tap REMOVE ALL THE DATA.

Tap the “exit button” at the top left or the “back button” on android.



Download all data

Tap Download, it counts all passages.
When the download is complete, the window shows the average speed of the entire logging.

Tap "Send log with email"



Send data file

Enter the email address.
Tap Send.



Technical specification.

Supply voltage: 12 volts

Power outlet: 4mA

Operating temperature: -40 to + 80 C

Bluetooth BLE4

Storage capacity 32.000

CE: RoHS 2011/65/EU

2-year guarantee against manufacturing defects



MADE IN SWEDEN



PT Warning light

Product description

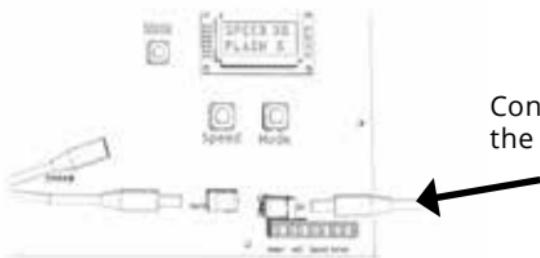
Includes flashing light, pole brackets and connection cable.



Mount the PT warning light on the post over the Pacetell Original.



Push the plug through the cable pass-through which is located in the original Pacetell.

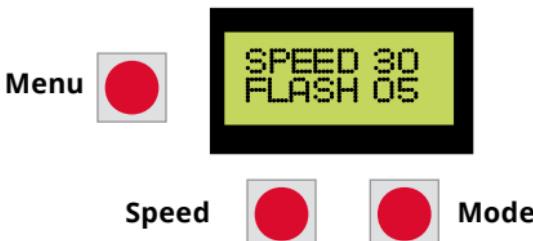


Connect the plug into the "AUX" input.



Advanced settings.

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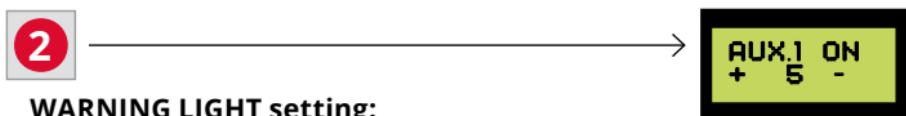


Use the **Menu** button to scroll through the settings. Each button press will take you to the next selection of setting as shown below.

The **Speed & Mode** buttons make changes, such as **On/Off** or **+ / -**, when needed.



Press and hold the "Menu" button for about 5 seconds.
The display changes to show the battery status.



WARNING LIGHT setting:

Set how many km/h you want PT Flashing light to start after the "FLASH" setting you already made. The factory setting 0 makes the warning light start at the same time as "FLASH"



Flashing AUX-output setting:

This should be set on 10.

Step down to "Saving settings" using the "Menu" button.



All changes are saved.



Ready.

Flashing pattern

There are three options for different flashing patterns, they are easily set by removing the orange glass. There is a switch that can be set as instructed below.



Single flash



Double flash



Rotating flash

Technical specification.

Light source: 18 pcs 3w LED lights

Voltage: 12VDC

Power: 3A

Diameter: 128mm

Enclosure: IP65

2-year guarantee against manufacturing defects



MADE IN SWEDEN

Declaration of Conformity



Pacetell AB

Kabelgatan 5,
434 37 Kungsbacka, Sweden

Hereby, Pacetell AB declares that following product(s):

Pacetell Original

is in compliance with the essential requirements
and other relevant provisions of Directive

EMC 2004/108/EC

E814983U-04-EO

Kungsbacka, Sweden, 2016-02-16

A handwritten signature in black ink, appearing to read "Patrik Uggla".

Patrik Uggla

President



REV. 4 - 2019.08.08



Innovative technologies



Speed reducing



Manufactured in Sweden

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PACETELL®
RADAR SPEED DISPLAY