

## Overview

Ambercounter is a system for counting pedestrians in trails or bicycles in bike lanes.

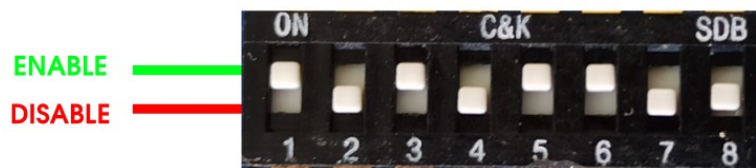
## Components

Each ambercounter station is composed of an OEM printed circuit board with a micro controller and a modem onboard plus a solar power unit and a passive infra red sensor.

This digital direction sensing pyroelectric infrared motion detector is designed to detect infrared radiation (IR) from a moving human both in daylight and at night and to indicate the direction of movement.

The sensor's circuits are housed in a waterproof plastic enclosure with a Fresnel lens mounted in its cover. It includes dual digital pyroelectric infrared sensors, a microprocessor and relay drivers.

A set of jumpers allows you to easily configure the station and define parameters such as how to send your data (SMS or HTTP), which weather or environmental sensors to use or which sample rate to acquire.



1. set RTC
2. send SMS
3. send HTTP
4. WakeUpTime, enable (1h) disable (24h || (time\_interval)
5. -2/-1 trim. Enable=-2 and disable =-1
6. Invert check out and check in, disable (Check out | Check in) enable (Check in | Check out).

## Led behaviour

Led blinks 1 time -> RTC has been set (Dip switch 1 configured to enable).

Led blinks 2 times -> SMS Sent.

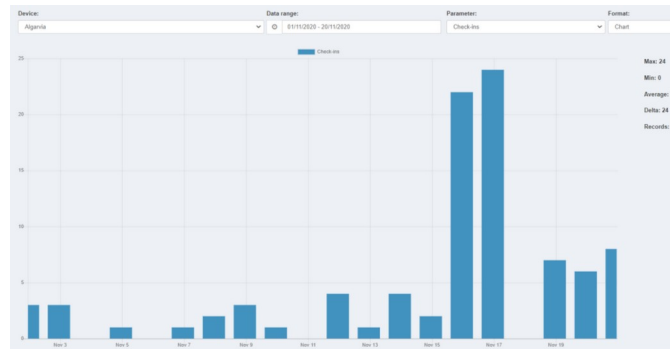
Led blinks 3 times -> HTTP Sent.

Led blinks 4 times -> DIP switch 4 is set to wake up every day at hour time\_interval.

Led blinks 8 times rapidly -> Station entering sleep.

## Communications

Either using SMS or HTTP communication, your data will be received in our own cloud, Ambercloud or in any other cloud.



It's also possible to download the data to CSV or Excel format.

	A	B	C	D	E	F	G
1	Device	Timestamp	Data	Hora	Check Out	Check In	Battery [V]
2	1	1604271600	2020-11-01	23:00:00	0.00	0.00	13.10
3	1	1604358000	2020-11-02	23:00:00	0.00	0.00	13.00
4	1	1604444400	2020-11-03	23:00:00	0.00	0.00	13.00
5	1	1604530800	2020-11-04	23:00:00	0.00	0.00	13.00
6	1	1604617200	2020-11-05	23:00:00	0.00	0.00	13.00
7	1	1604703600	2020-11-06	23:00:00	0.00	0.00	13.00
8	1	1604790000	2020-11-07	23:00:00	3.00	3.00	12.90
9	1	1604876400	2020-11-08	23:00:00	3.00	1.00	13.00
10	1	1604962800	2020-11-09	23:00:00	0.00	3.00	13.10
11	1	1605049200	2020-11-10	23:00:00	0.00	0.00	12.80
12	1	1605135600	2020-11-11	23:00:00	3.00	0.00	12.90
13	1	1605222000	2020-11-12	23:00:00	0.00	0.00	12.70
14	1	1605308400	2020-11-13	23:00:00	0.00	0.00	12.70
15	1	1605394800	2020-11-14	23:00:00	6.00	0.00	13.00
16	1	1605481200	2020-11-15	23:00:00	0.00	11.00	13.00