



Please make sure you have Microsoft .NET framework 3.5 installed on your machine

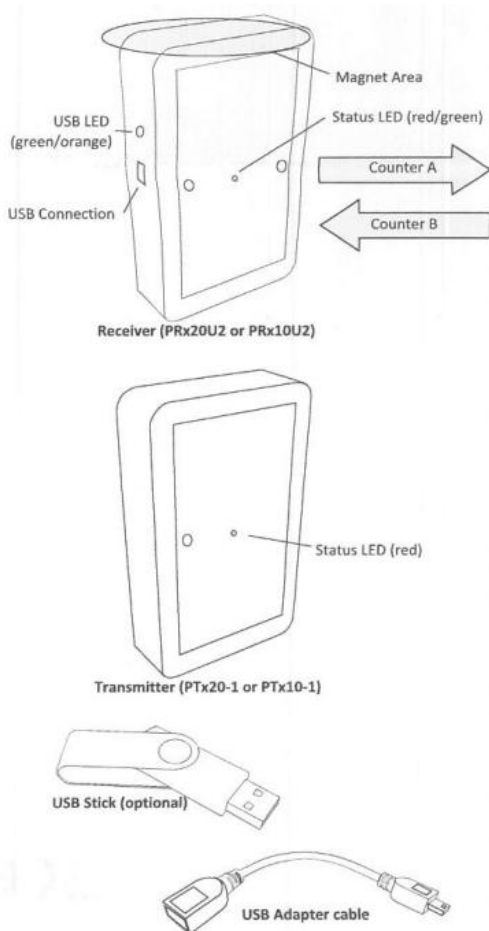
USB People Counter

1. Check the contents

- Receiver with USB connection (PRx20U2 or PRx10U2)
- Transmitter (PTx20-1 or PTx10-1)
- Magnet key hanger
- USB cable
- USB Adaptor cable
- USB Memory stick
- 4 x 1.5v Alkaline batteries
- 2 x screws for locking box cover
- Screwdriver
- Installation guide

Specifications:

Power supply: 1.5v Alkaline battery
 Battery life: approx. 1 year
 Measurement width: 10 metres max
 Dimensions: 116 x 70 x 26mm
 Material: ABS black



2. Place the batteries

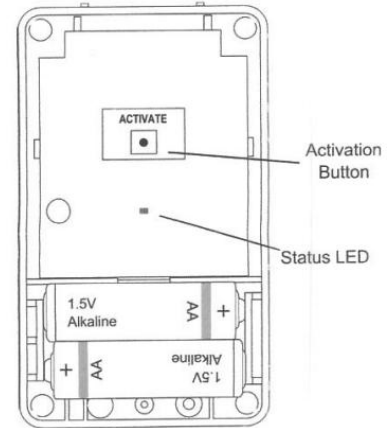
To power on the Transmitter (PTx20-1) and Receiver (PRx20U2) place the batteries into the battery compartment.

Please take note of the polarity of the batteries when placing them.

The display on the Receiver will show zero when the batteries are placed.

To Activate the Transmitter press and release the small Activation button (see below).

The status LED will blink twice during activation

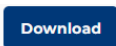


3. Software

NB software listed in this document (for setting up the counter only) can only be ran on a Windows machine.

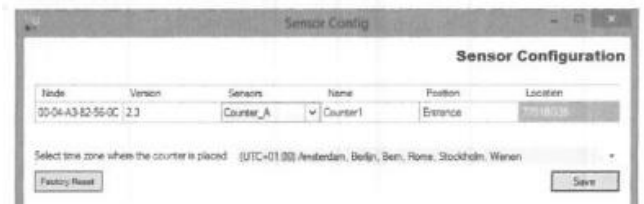
Step 1) Use the USB Sensor Config Tool (<https://www.im-motion.com/downloads>) to set the Name, Position, Location. Also, on the USB Sensor Config Tool: click the time sync button. You'll need the 'USB cable' listed under check the contents.

USB Sensor Config Tool



Application to synchronize the internal clock of the USB People Counter

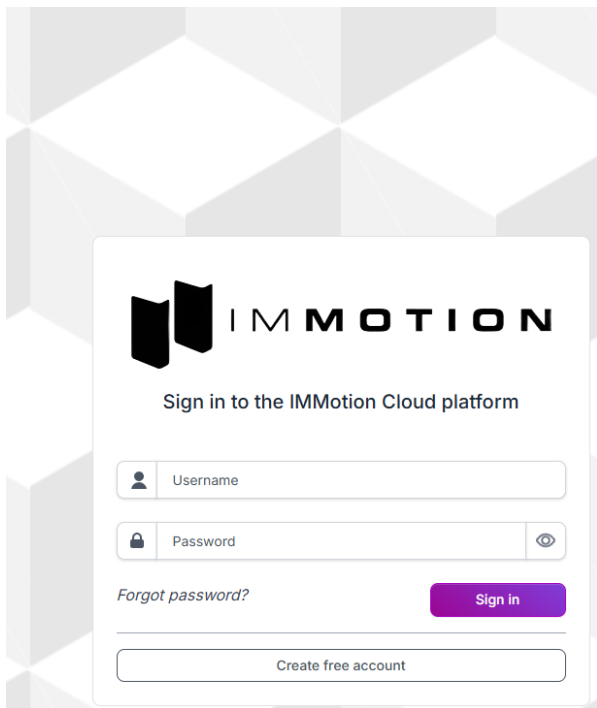
To identify the People Counter in the software you can give the People Counter a name, position, and location. Please start the Sensor Tool to set up these names and the time zone in which the counter will be installed. When the application is started you can connect the People Counter. Once the current settings are read out you can enter the Name, Position and Location of the People Counter. Enter information which corresponds to the place where the People Counter will be mounted, for example: Name: Counter1, Position: Entrance, Location: 7751BG35. The Location field is in most cases an administrative code of the location.



When ready, click on the Save button to store this information to the People Counter.

Step 2) To access the footfall data you will need to access the IMMOTION cloud platform (on-prem instance of IMMOTION Setup v1.0.3 software is no longer supported. Must migrate to the IMMOTION cloud platform and create an account):-

Please browse to <https://app.im-motion.net>



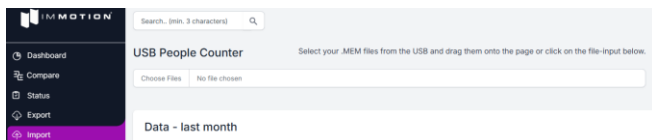
You will need to click: Create free account.

With the free account:-

- Can only see 90 days worth of data, restricted to see at 1 month at a time.
- Only 1 user per connected device.
- Users can still download all the data. Systematically still got a full database of all your footfall data.

Step 3) For the .MEM file that is downloaded from the counter (once the USB flash drive has been left in the counter for 2 minutes, using the supplied 'USB Adapter cable' as shown in the diagram opposite, as it takes time for the file to download. If the file is OKB, it means the USB flash drive has been disconnected too early, as it hasn't had enough time to download the file) to the supplied USB stick, you can then insert the USB stick to the machine you're using, then upload this .MEM file onto the IMMOTION cloud.

There may be an Import option on the left navigation bar that you must click. It links to <https://app.im-motion.net/usb-people-counter>



4. Mount the People Counter

When mounting the people counter take care of the following:

- The maximum distance between transmitter and receiver is 10m
- to count adults, use a mounting height between 125cm and 140cm
- Avoid the possibility of obstacles blocking the line of sight of the People Counter.
- Use a wall or another steady object to mount the People Counter on.

Additional information:

The measurement width of 10 metres will decrease when the infrared signal goes through goals or when full sunlight is shining directly on the receiver at a low angle.

Be aware of infrared light from other sources like bright lights and infrared devices. When the PRx20U2 receives infrared from other sources, instead of the PTx10-1, unexpected behaviour could be the result.

Due to the strong field of AM anti-shoplifting systems, it is recommend placing the People Counter at least 1 metre away from an AM system.

Note: the red LED on the receiver will light up when noise is detected. In this case find the source of this disturbance and try to remove.

ENI (Enhanced Noise Immunity)

The PRx20U2 is featured with ENI technology.

This technology enables the PRx20D1 to work in environments where noise exists.

The above additional information is still important when there is too much disturbance in the environment. In that case red LED on the Receiver will light up.

5. Check the alignment

The receiver (display) needs to 'see' the transmitter.

The receiver contains an alignment feature which helps you to point the transmitter to the receiver.

To enable the alignment mode, slide the magnet on the top side of the receiver (display) [magnet area].

When the LED is blinking red you need to point the transmitter to the receiver until the LED lights up green continuously.

Please try to find the middle of the light beam during the alignment.

Accuracy of the People Counter

The accuracy of the counter will be higher when the distance between the transmitter and receiver gets smaller. When more people interrupt the beam at once the People Counter will increase the count value by one.

6. Start Counting

The counter stores the count values including a timestamp in its memory. When counts are created within a minute it will be stored in the memory. The green status LED on the receiver will blink once a count is created.

7. Data Download

The memory of the counter can store up to 40 days of minutely data. To read out the memory use the adaptor cable to connect a USB stick to the counter.

Once the adapter cable is connected the USB LED will light up orange. When the USB stick is connected, the USB LED will start to blink green.

The USB stick can be removed when the green LED stops blinking. Now the complete memory of the counter is stored on the USB stick and is ready to be imported into the IMMOTION cloud platform.

Note: Multiple counters can be read out with a single USB stick since the counter is configured with a Name, Location and Position information.

8. Additional Information

Low battery detection:

The receiver and transmitter are both equipped with a low battery detection.

The red LED will blink every 2.5 seconds indicating the low battery state. During this state you have enough time to replace the battery.

Internal Clock:

The receiver contains an internal clock to keep track of the current date and time.

It is recommended to connect the receiver with the USB Sensor Config Tool to synchronise the clock once a year. This way the date and time of the data stays accurate.

This is an indoor unit. For outdoor applications, separate robust housings can be purchased.