



**Impulse counter device for gas  
meters with impulse output**

**Quick start guide**

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## ENGLISH

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You have completed the configuration section for the transmitter (s)

You can proceed to the installation of the transmitters. On the page containing the information of the transmitter to be installed, please click on the MESSAGE tab.

## CONNECT YOUR TRANSMITTER

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You can now connect the battery of the previously configured transmitter.

You can refer to the LEDs of the transmitter to understand more about the installation status.

STARTING PHASE	L1	L2	L3	TIME
Phase 1	OFF	ON	OFF	10 seconds maximum
Phase 2	OFF	Flashes	OFF	20 seconds maximum
Phase 3	Flashes	OFF	OFF	3 minutes maximum

INSTALLATION STATUS	L1	L2	L3	TIME
Downlink received - good signal	OFF	ON	ON	10 seconds
Downlink received - weak signal	ON	ON	ON	20 seconds
Downlink not received	OFF	Flashes	Flashes	30 seconds

## Device Activation

The fact that the transmitter does not receive a downlink can be explained in several ways:

- Incorrect configuration of the downlink
- No Sigfox network coverage

If the transmitter does not correctly recover its downlink but is positioned in an area covered by the network, it will transmit at the default frequency (60 min)

When the transmitter retrieves its downlink, it means that it correctly accounted for its configuration parameter.

Repeat for all transmitters to be installed and have been configured or declared.

If the transmitter does not take its downlink, you can disconnect the transmitter, wait at least 1 min and recharge it.

If this does not change the behaviour of the transmitter, see the left inset.

## INSTALL THE TRANSMITTERS

### VALIDATE DATA RECEPTION

In parallel with the LED's, you can follow the frames arriving on the MESSAGE page on the Sigfox Backend. The first frames start arriving on the backend. In the CALLBACKS column, the arrow informs you of the status of the Sigfox server response.






Indicates that the downlink retrieve is in progress



Indicates that the downlink has been successfully retrieved

The message should be sent in fuction of the configured periodicity (here every 30 mn)

Time	Data / Decoding	Location	Link quality	Callbacks
2018-06-05 13:50:36	02210601a401 Device_Type: 2 Firmware_Version_Battery_status_byte: 33 Temperature: 262 Humidity: 420			
2018-06-05 13:20:04	02210501a801 Device_Type: 2 Firmware_Version_Battery_status_byte: 33 Temperature: 251 Humidity: 424			
2018-06-05 12:49:28	02210401ab01 Device_Type: 2 Firmware_Version_Battery_status_byte: 33 Temperature: 260 Humidity: 427			
2018-06-05 12:18:55	434f4e46494702 Device_Type: 67 Firmware_Version_Battery_status_byte: 79 Temperature: 17999 Humidity: 18249			

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## DECODING DATA FRAMES

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To receive the decoding file related to our data frames, please contact our sales department.

## POSITION AND CONNECT YOUR TRANSMITTERS

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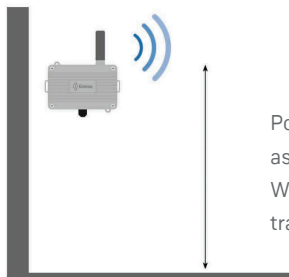
For the positioning and connection of your transmitters, please refer to our next pages.

## POSITIONING AND FIXING PRODUCTS

### Positioning

The correct positioning of transmitters is very important and has a significant influence on the quality of transmission of radio waves. If your transmitter is incorrectly positioned you will reduce the radio coverage distance.

To maximise the transmitter's performance please follow the instructions described below.



Position the transmitters as high as possible.

We recommend positioning the transmitters at least 1.50 m high



Ensure that the transmitter antenna is always up

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## Fixing

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The transmitters are fixed using the wall fixing lugs.

These lugs are provided for fixing with screws.

The lugs of the ambient transmitters are inside the transmitters.

For rugged transmitters you can also use the clamp collar loop on the side of the case.





## CONNECTION OF PULSE TRANSMITTERS TO PULSE COUNTER

### **Reminder regarding the use of the transmitter TX PULSE ATEX SIGFOX HP 100-010**

According to the ATEX device 1999/92/EC only personnel trained to work in hazardous areas are allowed to install the transmitter TX PULSE ATEX SIGFOX HP 100-010. No changes can be made to the transmitter.

### **Special conditions for a safe use**

In the case of an installation with a gas computer, the TX PULSE ATEX SIGFOX HP 100-010 transmitter output wires must be connected to certified intrinsically safe equipment. This combination must be compatible with the intrinsic safety rules Uo, Io, Po, Co, Lo specified on the label affixed to the transmitter.

## Certifications

The TX PULSE ATEX SIGFOX HP 100 - 010 transmitter is ATEX certified.

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Ex ia IIC T3 Ga

-20° C ≤ + 55 ° C

LCIE 14 ATEX 3013 X

Uo: 3,9V; Io: 926 mA; Po: 153 mW; Co: 63 uF; Lo: 42 uH

The TX PULSE ATEX SIGFOX HP 100 - 010 transmitter is conform to the norms: EN60079-0 et EN6079 - 11

## Battery

The TX PULSE ATEX SIGFOX HP 100 - 010 transmitter comes with a battery BAT LS33600.

Only this model of battery can be used with the TX PULSE ATEX SIGFOX HP 100 - 010 transmitter.

This battery model is available from Enless Wireless.

## Warning - Potential Electrostatic Charge Hazard

The TX PULSE ATEX SIGFOX HP 100 - 010 should only be cleaned with a damp cloth.

Pulse transmitters are supplied with 4 wires and have two pulse inputs. They can be connected to 2 counters simultaneously.



Compatibility with:

- Dry contact interface counters
- 50 mseconds minimum
- 10 Hz maximum

## Meter Connection

Counter 1 on input 1:

The wires for input 1 are labelled A + and A -

- A + is connected to the transmitter's PULSE 1 INP terminal block

- A - is connected to the GND terminal of the transmitter

Counter 2 on input 2:

The wires for input 2 are labelled B + and B -

- B + is connected to the PULSE 2 INP terminal of the transmitter

- B - is connected to the GND terminal of the transmitter

# ECCO GAS ATEX

Information available at:  
[www.nettrotter.solutions](http://www.nettrotter.solutions)



Made in Italy