ineo·sense
BRINGING SENSE TO WIRELESS

ESG-Logger-AN
ESG-Logger-MB

1 – Installation

DRAFT

Summary

DRAFT

Revisions

Version	Date	Contributor(s)	Changes
00.01	2024-04-25	CSE	First Draft
00.02	2024-11-07	ESS	Revision 1 after Customer feedback
00.03	2024-12-04	ESS	Revision 2 after Customer feedback
00.04	2024-04-10	ESS	Add details about Analog input locations

Document approval

Version	Redaction	Review	Validation
NAME	Emmanuel SALLES		
FUNCTION	Product Owner		
DATE			
VISA			

Reference Documents

Ref.	Title	Designation

Source : SUP_UG5601_ESG-Logger-AN-MB-Installation_C3_00.02_EN_2411.docx

DRAFT

1. Physical setup

1.1. Attaching the base plate

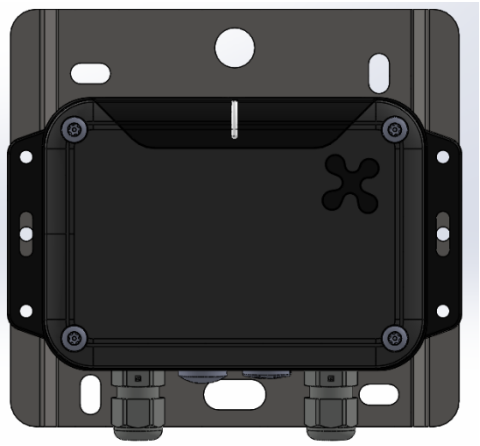
1.1.1. Tools

You will need the following:

	
A drill and bits matching the wall material and the screw girth	Up to 4 screws and their anchors (maximum girth 4mm)
	
An electric or manual screwdriver (slotted, cross/Philips, depending on the screws you chose)	A level
	
A pen or pencil to mark the holes	Washers and a hammer depending on the type of screws and the wall
	
A magnet	

DRAFT

1.1.2. Plate

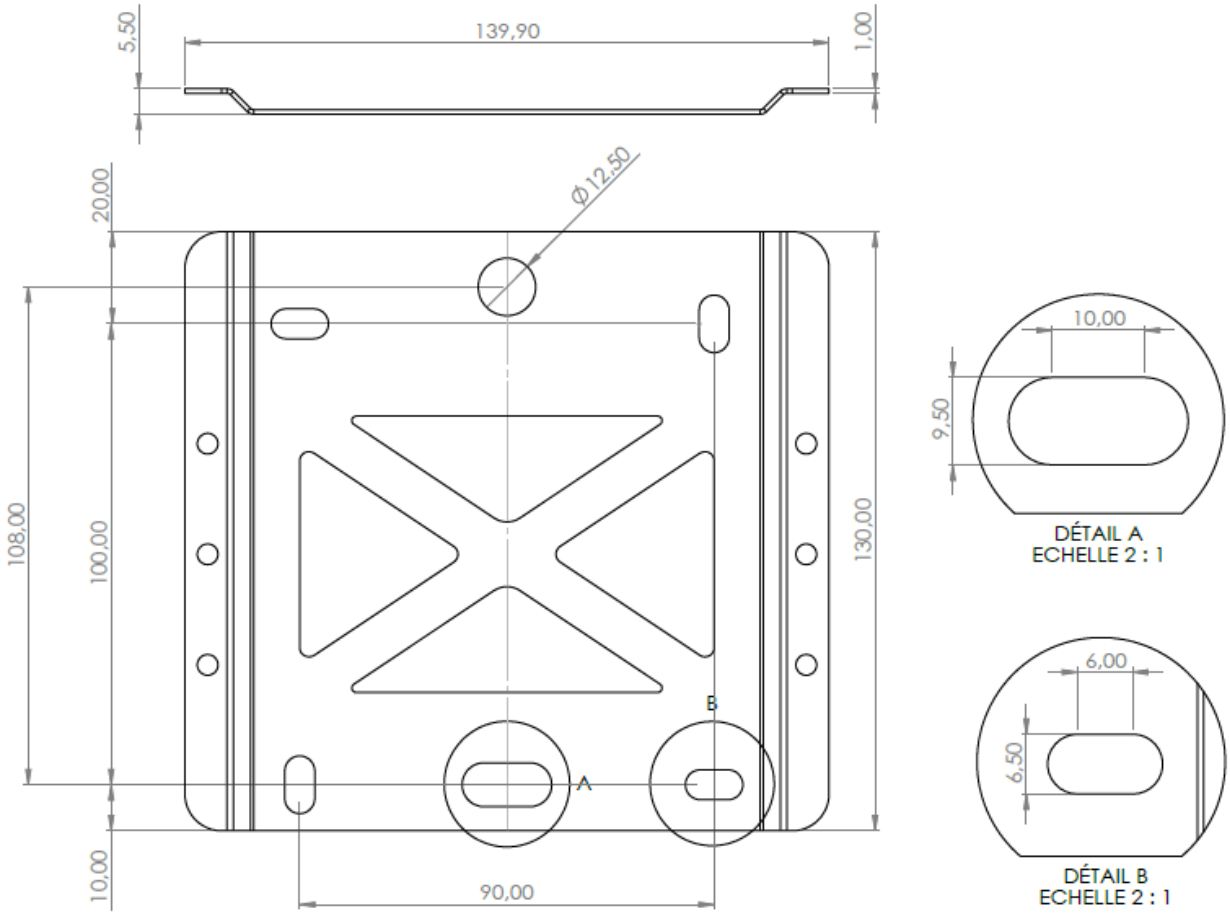


The base plate can be fixed with three screws if needed (on an irregular wall for example), using the top center round hole ideally and using the oblongs to reach even. We recommend four screws if the wall surface is reasonably flat.

The indented ears must be facing outwards.

Use the plate to mark the holes you will drill the wall. The plate should be horizontal before tightening the screws

Dimensions

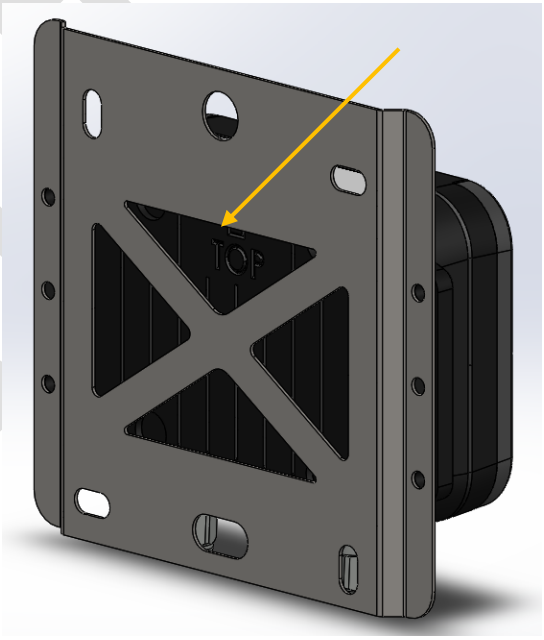


1.2. Attaching the ESG-Logger-AN

The ESG-Logger-AN attaches horizontally on the intended ears, with the cables pointing DOWN and the LED indicator UP.

Please note the transparent mark holders fitted on the cables for identification

The markings at the back also clearly indicate TOP.



DRAFT

2. Connect sensors

The ESG-Logger-AN will come fitted with the right cables and connectors. Replacing the type of sensor cables or the cables themselves in case of damage is not ATEX compliant. In case the cables where damaged or do not match your setup requirements, please contact the manufacturer.

All operations described here can be done without PPE (Personal Protection Equipment).

2.1. Analogic sensors

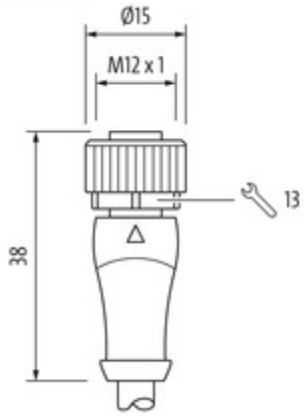
2 cables for 2 inputs

The inputs are marked onto plastic labels wrapper on the cables.

Standard device assembly involve I1 (AN1) at the left side and I2 (AN2) at the right side.

Analogic connectors are screw-on caps. These caps will simply be applied on the sensor and screwed on gently, by hand, ensuring that the thread is exactly aligned in the teat and the cap.

Anything requiring excessive force is probably done wrong.



Pin	Description
1	Power supply output +5Vdc (only during sensor measurement)
2	*Not used*
3	Ratio signal
4	GND
5	*Not used*

2.2. Digital sensors

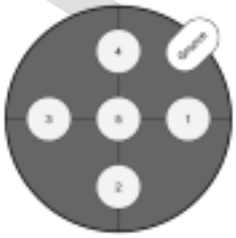
In this specific setup, the ESG-Logger-AN was fitted with a Bulgin connection.

First, connect the male and female black plugs of the cable, making sure that all 7 plugs are properly aligned, without any special effort.

Then, screw on the connection protector, again doing so gently and taking into account that excessive effort will damage the cable endings.

The metallic end is a Keller connector. Insert the connectors into the holes of the 'hammer' and screw in gently.

Pin	Description
1	*GND*
2	*Not used*
3	Power supply output +5Vdc (only during sensor measurement)
4	Master RS485 +
5	Master RS485 -



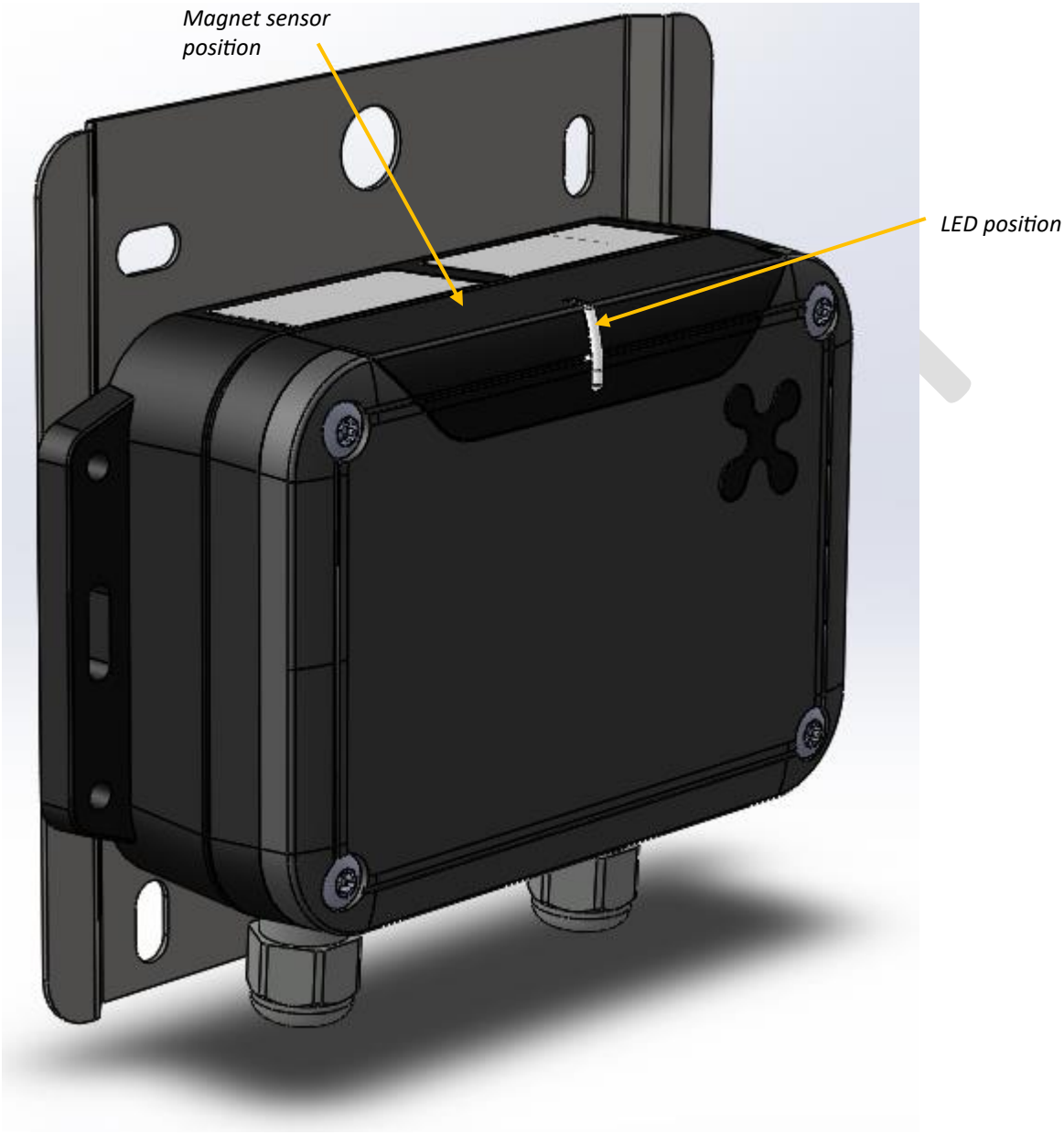
TO BE CONFIRMED

DRAFT

3. Initialization

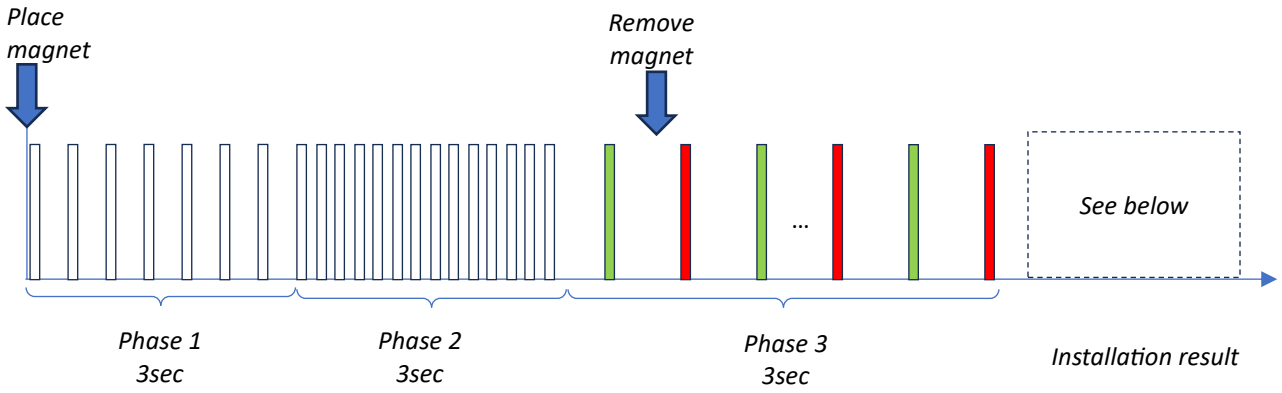
You will need a magnet to perform this phase. While all metallic magnets should work, very weak magnets (such as plastic plate magnets) may prove insufficient.

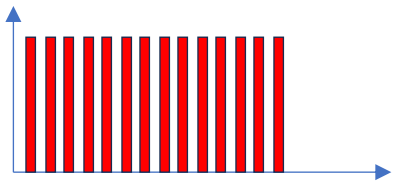
Initialization is done by placing the magnet on the top side of the ESG-Logger-AN, about 0.5cm to the left of the LED, as shown here with the red dot.



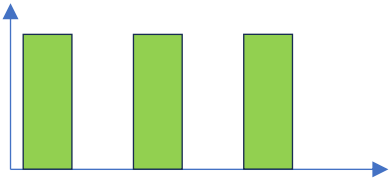
The LED indicator will flash green, then flash green first fast, then slow, then stable green.

The LED indicator will not be flashing anymore during the life of the product.





INSTALLATION NOK



INSTALLATION OK

In case of success, your ESG-Logger-AN is ready to use!

4. Checking correct operation

4.1. External comm

When the ESG-Logger-AN has been initialized in the previous step, its first activity was to send an event through the network (Sigfox or LoRaWAN).

Contact someone who can tell you if this has been received properly.

4.2. Data sensing

In order to check that the data itself is produced correctly, start the INS-Blueread and launch the INS-Player where you will be able to see current sensor values, among others.

Please refer to the Operations manual.

DRAFT