



# How to install a TiltLog

## Installation procedure – INTERNAL

**Code** Internal  
**Owner** IoT Department

### Revisions

Version	Date	Author	Modification
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## 1. INTRODUCTION

This procedure aims to present how to properly install a TiltLog.

## 2. PREREQUISITE

The TiltLog transmits data over LoRaWAN. Before installation, **please ensure there is a LoRaWAN coverage where the device is going to be installed.**

Regarding the coverage, there are two possibilities: via Socotec Monitoring gateway or via Orange connectivity. Please refer to IoT SMF department (Fablab) for any further information.

## 3. INSTALLATION

### 3.1. TiltLog orientation

The TiltLog measures rotations around two axis only :

- X axis, represented in blue on the drawing.
- Y axis, represented in yellow on the drawing.

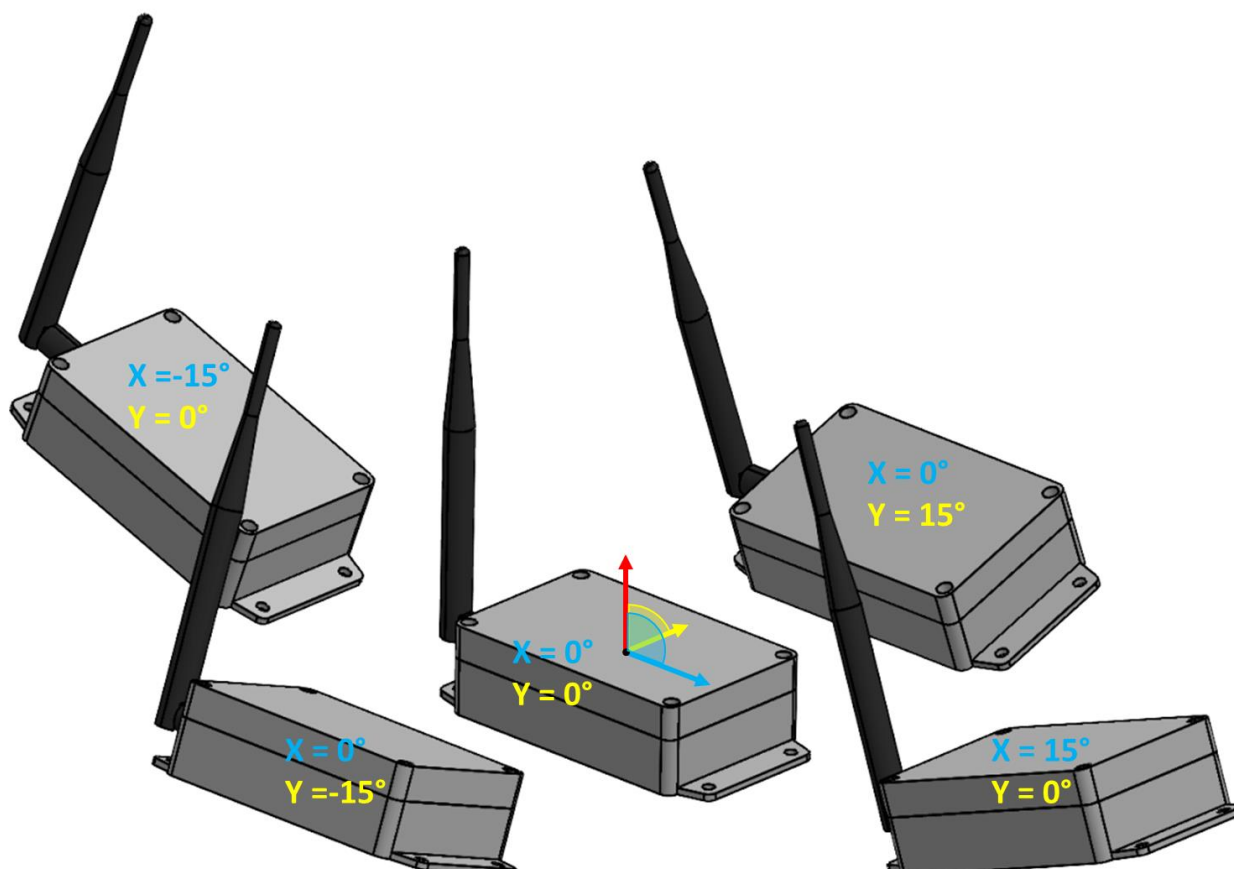


Figure 1: TiltLogs axis orientation

## 3.2. Tiltlog installation

### 3.2.1. Horizontal surface installation

On any horizontal surface, i.e. any floor or roof which inclination do not exceed 10<sup>1</sup> degrees, the Tiltlog must be laid flat. The logo and the antenna must point in the upright direction.



Fig.2 : good installation (above view)



Fig.3 : acceptable<sup>2</sup> installation (above view)

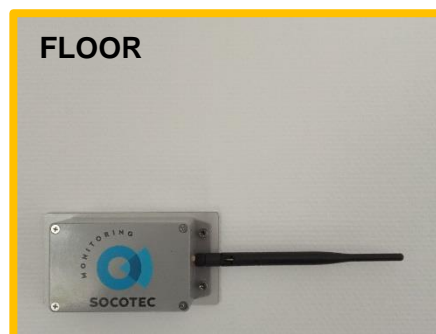


Fig.4 : acceptable<sup>2</sup> installation (above view)

TiltLog	<b>GOOD</b>	TiltLog	<b>GOOD</b>	TiltLog	<b>GOOD</b>
Antenna	<b>GOOD</b>	Antenna	<b>ACCEPTABLE</b>	Antenna	<b>ACCEPTABLE</b>

<sup>1</sup>: angle between the surface and an ideal horizontal surface (absolute value).

<sup>2</sup>: installation acceptable only on railway sleepers

### 3.2.2. Vertical surface installation

On any vertical surface, i.e. any wall or partition which inclination do not exceed 10<sup>2</sup> degrees, the Tiltlog should be placed flat on a metal bracket. The logo and the antenna must point in the upright direction.



Fig.5 : good installation (front view)

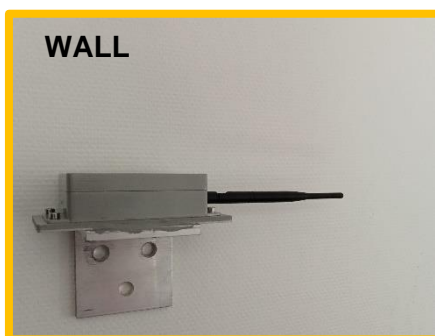


Fig.6 : acceptable installation (front view)



Fig.7 : bad installation (front view)

TiltLog	<b>GOOD</b>	TiltLog	<b>GOOD</b>	TiltLog	<b>BAD</b>
Antenna	<b>GOOD</b>	Antenna	<b>ACCEPTABLE</b>	Antenna	<b>GOOD</b>

<sup>3</sup>: angle between the surface and an ideal vertical surface (absolute value).

### 3.1. After the installation

An **installation report is mandatory**. Each sensor must be **photographed and listed with its serial number**.

In order to assert that every sensor has been properly installed, check the data and verify that :

- $X \simeq 0^\circ$
- $Y \simeq 0^\circ$