

2 PLANE TILT SENSOR

Overview

NETOP 2 Plane(Duble Axis) Tilt sensor is a long range wireless sensor which can be used for monitoring of angle between the device and earth (ground). The device gives 2 seperate outputs of the angle of tilt as Tilt X and Tilt Y(as an example: Tilt X: +10,0 degree and Tilt Y: -15,0 degree). This sensor is fully compatible with LPWAN technology by using LTE-M(Cat M1). The standard version of this sensor is powered by two replaceable 3.6 V AA sized battery (included with purchase).

Key Features

- Real plug & play
- Easy to mount & install
- Maintenance free – install & forget
- Excellent Extended Range in Buildings and Underground
- Easy deployment utilizing cellular system
- Micro SIM(default) or Chip SIM Card(depend on request)
- Ultra Low Power Consumption
- Certifications: CE, RoHS



Communication Specs

- The sensor uses LPWAN technology; LTE-M(Cat M1) for connectivity
- Supported bands including B1/ B2/ B3/ B4/ B5/ B8/ B12/ B13/ B18/ B19/ B20/ B26/ B28/ B39
- Internet Protocol Feature: Support IPv4/TCP/UDP
- Full duplex communication
- Extended Coverage: 10-15km with 164 dB maximum coupling loss (MCL)
- Antenna Types: Internal(default) or External(depend on request) Antenna

Mechanics

- Housing: ABS
- Dimensions: 65 x 55 x 27 mm
- Operating temperature: -40°C to +85°C

Data Security

- AES-128

Power Supply

- AA Battery 3.6 V Li-SOCl₂-Soft LS 14500 (2 pieces)

Indicators

- RGB Status LED (on board)

Sensor Specifications

Output	:	Tilt of X axis and Tilt of Y axis
Resolution	:	0.01 degree
Data Transmission Period	:	Every 15 minutes(default)

Certifications & Reliability

- CE
- EN 62479
- EN60950
- EN 301 489-1
- EN 301 489-17
- EN 300 328

Applications

- Infrastructure tilting condition monitoring
- Beam/crossbar of building monitoring
- Railway track monitoring
- Tilt monitoring of telephone pole
- Tilt monitoring of Street light's pole
- Totem/Billboards pole monitoring and related applications