


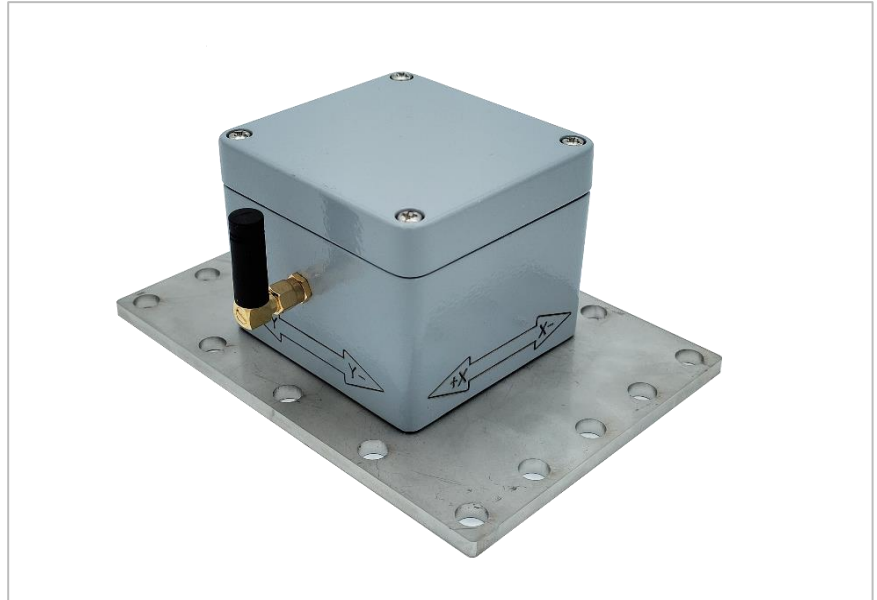
TILT TECHNICAL FEATURES

- ✓ Measuring range: +/-5° (+/- 10° and +/- 15° available);
- ✓ Type of sensor: Biaxial MEMS;
- ✓ Output signal: tilt angle in degrees;
- ✓ Resolution: 0,0001°;
- ✓ Repeatability: +/- 0,0015° (+/- 0,026 mm/m);
- ✓ Accuracy: +/- 0,0020° (+/- 0,034 mm/m);
- ✓ Operating temperature: -20 °C to +70°C;
- ✓ Type of installation: horizontal;
- ✓ Case material: aluminum;
- ✓ Temperature sensor: integrated (2° C accuracy);
- ✓ Protection level: IP68.

WIRELESS TECHNICAL FEATURES

- ✓ Frequency Band: 868 MHz,
- ✓ Maximum permitted antenna gain: from 10 to 135 dBm;
- ✓ Range: up to 10 km in rural areas, up to 2-3 km in dense urban areas;
- ✓ Consumption: 4,5 mA standby, 44,5 mA acquisition for 8 seconds;
- ✓ Battery life: 25,000 acquisitions;
- ✓ Sampling rate: 1/59 min, 1/23 hours, 1/10 days;
- ✓ Configuration: via G802 Gateway-Datalogger.

 product compliant with European directives



The MEMS tiltmeter is a precision instrument that measures tilting change of the structure onto which it is fixed.

It consists of an aluminum body which contains a MEMS type biaxial inclination sensor, whose output signal is proportional to the instrument's tilting angle with reference to the horizontal plane.

The sensor is integrated with a Wireless module, which allows long-range data transmission and low energy consumption to a receiver (master) positioned even at a distance

of several km. This communication system, who has eliminated the need to use signal cables, ensures reliable and efficient remote transmission.

It is mainly used to monitor building walls, overpass piles, embankments, rock walls, and railways lines.

It can either be fixed to a variable length aluminium bracket or a single ball joint support for ideal space positioning.

DIMENSIONS	
master mm	80x50x57
slave mm	80x50x67