

## Wireless Tiltmeter



**Typical applications of the DGSi Wireless Tiltmeter include:**

- Remote tilt monitoring from retaining and building walls.
- Landslide monitoring.
- Bridge pier monitoring.
- Structural load monitoring.
- Ground subsidence.

### **Main Specifications**

- Type: MEMS (Micro-Electro-Mechanical) Inclinometer
- Range:  $\pm 15^\circ$
- Accuracy ( $\pm 5^\circ$ ): 0.03% FS /  $0.004^\circ$
- Accuracy full range: 0.17% FS /  $0.025^\circ$
- Resolution:  $0.001^\circ$
- Repeatability:  $0.005^\circ$
- Axes: Two (biaxial)
- Temperature sensor resolution:  $0.1^\circ\text{C}$
- Temperature sensor accuracy:  $\pm 0.5^\circ\text{C}$

### **Wireless Tiltmeter Battery Life Estimation**

- **5 min** (sampling rate) = **1.2 years** (Barcelona temperature profile\*) or **1.1 years** (Singapore temperature profile\*)
- **1 h** (sampling rate) = **5.8 years** (Barcelona temperature profile\*) or **4.7 years** (Singapore temperature profile\*)
- **6 h** (sampling rate) = **8.3 years** (Barcelona temperature profile\*) or **6.4 years** (Singapore temperature profile\*)

\* *Estimations for 2 x saft LSH 14 batteries*