

# RED MONITORING

Wireless Sensor Solutions and Data Visualization

## Industrial Grade High-Precision 3-Axis Wireless Tiltmeter



### Main Features

- Compact design (125x80x40 mm)
- Embedded digital data recorder
- Smart data acquisition with on duty trigger
- Rechargeable internal battery
- ≈6 months of battery life (30 mins of status record with continuous background measurement)
- Embedded memory and smart data transfer protocol with Red Gateway for data protection
- Waterproof (IP65) die cast aluminum enclosure

## Accelerometer Specifications

Measurement Range	:	$\pm 90^\circ$
Sensitivity	:	3.9 $\mu\text{g}/\text{LSB}$
Maximum Sampling Rate	:	Maximum 4 kHz per axis
Data Filter	:	Digital low-pass filter: 1-1000 Hz
Noise Spectral Density	:	0.0008 $^\circ/\sqrt{\text{Hz}}$
Trigger Level	:	Programmable threshold level: 0.4% - 100% full scale (Acceleration $\pm 2\text{g}$ )
Measurement Protocol	:	Event recording with continuous background measuring and programmable low duty cycle data acquisition
Maximum Radio Range	:	1 km (line of sight)
Operating Temperature	:	-40 .... +80 $^\circ\text{C}$