

WIRELESS TILTMETER



For long-range, remote readings in geotechnical monitoring

Measuring inclinations with tiltmeters is essential for the success of many projects: from controlling building response during a tunneling project, over analyzing settlements, to tracking changes in the inclination of structures such as bridge piers or historical monuments and dams, to monitoring landslides including berms in open pits. The Loadensing Tiltmeter is a low-power long-range wireless datalogger and inclinometer in a single, compact box. It measures tilt in two (biaxial) perpendicular axes in the plane of the base. It combines a highly precise MEMS sensor plus the radio transmission network by Loadensing, Worldsensing's leading connected infrastructure solution. One gateway can support several nodes in the same network. Its ability to provide accurate measures with long-range wireless communication and extended battery life sets this inclinometer apart from other comparable products in the market. The tiltmeter can also be used as a standalone logger for manual monitoring and can be easily configured and connected with a USB cable and an Android phone.

FEATURES

HARDWARE

Datalogging and tilt monitoring in a compact box

High accuracy and repeatability

Long battery life (> 5 years @ 1h sampling rate)

-40°C to 80°C (-40°F to 175°F) operating range

Reduced size (140 x 120 x 61 mm)

APPLICATIONS

Remote tilt monitoring from retaining and building walls

Landslide monitoring

Bridge pier monitoring

Structural load monitoring

Ground subsidence