



Sanlien Technology Corp.

# MEMS In-Place Inclinometer



Model: MIPI

Be the frontier of environmental monitoring

[www.sanlien.com](http://www.sanlien.com)

## Introduction

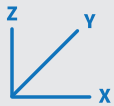
MEMS In-Place Inclinator (IPI) serves to measure lateral shifts in the ground or within structures. It comprises a sequence of MEMS tilt sensors (uni or biaxial) mounted onto stainless steel tubing sections joined by universal joints. This device enables the remote monitoring of horizontal movement within a vertical borehole. MEMS IPI system includes the Smart Model, equipped with a data acquisition system for added capabilities.



## Key Features



Accurate and Precise Measurements Using MEMS Sensors



Available in Uniaxial and Biaxial Versions



Robust Design and Reliable



In-built Temperature Compensation



Accommodates Manual or Remote Reading

## Applications

- ✓ Detecting slopes and landslides
- ✓ Determining shear and slip zones
- ✓ Monitoring diaphragm or sheet pile walls
- ✓ Monitoring bending in piles
- ✓ Measure settlement and deformation of concrete slabs and tank bases

## Best Suited



Landslide



Diaphragm Wall



Sheet Pile Wall



Tank Bases

## Specifications

Range	$\pm 15^\circ$ (Vertical) / $\pm 15^\circ$ (Horizontal)
Resolution	<10 arc seconds
Accuracy	$\pm 0.1\%$ F.S.
Operating Temperature	-20 °C to 80 °C
Sensor Output	$\pm 4V @ \pm 15^\circ$
Input Voltage	12 VDC
Minimum Casing	Internal diameter : 56 mm
Dimensions	$\Phi 32$ mm x 215 mm

## Be the frontier of environmental monitoring

Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investments, perfecting our manufacturing of monitoring systems, and expanding into Smart City and IoT monitoring. With more than 1,000 local and international customers, Sanlien is trusted by global customers with high standards. By working with renowned agents around the world, we ensure the optimal performance and reliability of our services. With 50 years of profound experience in Taiwan, Sanlien has become the most exceptional provider of measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a global partner into a three-in-one strategy: long-term deployment of globalization, integration of local resources, and localized operations. We shall march on step by step with the stamina for running a marathon.

\*All prices, features, and specifications are subject to change without prior notice.

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