

Precision inclinometers LE-30

1.Precision inclinometer features:

- (1) Wide operating temperature range: -40 to + 80 °C, fully temperature compensated.
- (2) High precision: absolute accuracy 0.01 (comprising all errors).
- (3) Housing construction waterproof, anti-interference ability.

2.Precision inclinometer description:

LE is a high-precision inclinometers biaxial digital inclinometer, inclinometer by measuring the static acceleration of gravity changes, be converted into angle changes. Inclinometer to measure the output of the sensor relative pitch angle of tilt and horizontal plane. Inclinometer built-in temperature sensor can drift correction according to the temperature sensor temperature. Angle sensor response speed from 1 / sec --5 times / sec (adjustable). Built-in shock suppression mode, relying partly reflect differences in speed, shock and vibration and inclination to distinguish between changes.

3.Precision inclinometer performance parameters:

Sensor performance parameters in the following table (RT test):

characteristic	condition	Min	Typical	Max	Unit
Supply voltage	12V DC power supply products	9	12	15	V
	Contact the factory can be customized 24V DC power supply products	19	24	27	V
Working current	Supply voltage = 12V	115	125	135	mA
Measuring range			±15	±30	°
Accuracy (pk-pk)	Measuring range±5°		±0.005	±0.008	°
	Measuring range±10°		±0.006	±0.01	°
	Measuring range±15°		±0.008	±0.01	°

	Measuring range±30°		±0.01	±0.015	°
Resolution			±0.001	±0.002	°
Linear			±0.05	±0.07	%
Repeatability			±0.008		°
stability	Interval 24 hours		±0.01		°
Thermal zero drift	Temperature range: -40 °C -85 °C		±0.0005	±0.001	°/°C
Data update rate	Output continuous output	1	3	5	Hz
Baud Rate	RS232、RS485、RS422、TTL		9600		Baud
Communication parameters	RS232、RS485、RS422、TTL	9600, n, 8, 1			
storage temperature	Ambient temperature	-50		90	°C
Operating temperature	Ambient temperature	-40		85	°C
Protection class			IP55		
weight	310±10				g
size	Length: 90 Width: 60 Height: 38				mm

