

KXO-1 Foundation Pit displacement inclinometer



Summary

The instrument for measuring the displacement by inclination precision measurement mainly used to monitor deep excavation, slope, foundations, piers and other basic horizontal displacements during the observation period. Through way of drilling, when excavation, slope and foundation deformation, measuring chute pipe deformation, then dip the probe on the pulley along the groove and on or under point measurement, which can accurately measure the horizontal displacement. According to the value of horizontal displacement, it can be used to predict and guide the construction. When measuring the bridge pier, the inclination of the pier can be monitored by measuring the inclination of the pier.

I. Main technical features

1. The inclinometer equipped with inclinometer probe, ground controllers, chargers and cable with depth markers.
2. The working modes consist with the outdoor scene designated by the depth mark point measurement data acquisition; indoor analysis and processing into a figure.
3. The control unit can record the measurement data of 60 monitoring holes at a time. The data is transmitted from the control unit to the computer, and then analyzed by a computer for data processing, data compilation and print out the map.
4. The measurement data is reliable, easy to operate, suitable for all kinds of outdoor environment, is the common measuring instrument for foundation pit, slope and foundation displacement monitoring.

II. Main technical specifications

1. Probe size: $\Phi 34 \text{ mm} \times 800 \text{ mm}$;
2. Accelerometer sensor quadrature error: $\leq 0.5^\circ$;
3. Roller spacing: 500mm;
4. Angle measuring accuracy: 6mm / 30m, resolution 5“;
5. Angle measuring range: $00 \sim \pm 300$;
6. Measuring depth: $\leq 100 \text{ m}$;
7. Storage capacity: 60-hole data;
8. Working temperature: Ground instruments $-10^\circ \text{ C} \sim +50^\circ \text{ C}$;
Downhole instrument $0^\circ \text{ C} \sim +50^\circ \text{ C}$;
9. Ground controllers Dimensions: $240 \text{ mm} \times 170 \text{ mm} \times 150 \text{ mm}$;
10. Power supply: Built-in rechargeable lithium battery pack, fully working longer than 8 hours (with the use of the way).