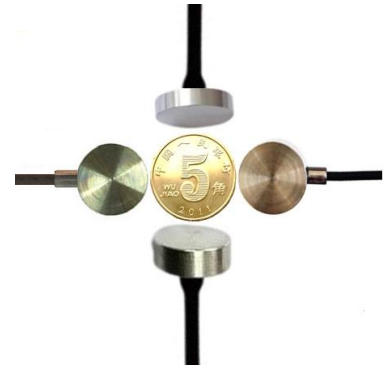


HCYB-16 Micro Soil Stress Sensor

Product Introduction

Due to the requirements for the measured flow field and placement position, it is necessary to measure pressure in situ and reproduce the variation pattern of pulsating flow field without interfering with the flow field state. There are often strict requirements for the miniaturization of the external dimensions of the sensor. The HCYB-16 miniature earth pressure sensor is designed for the above working conditions. This series of products uses a micro strain diaphragm as the core component and high-precision integration, By utilizing international advanced miniaturization production and packaging technology, exquisite and clever micro packaging has been carried out. The product has a small volume, compact structure, light weight, durability, and excellent dynamic and static characteristics. This series of products is particularly suitable for various model tests and on-site applications such as civil engineering experiments, landslide and debris flow experiments, slope experiments, dam monitoring, etc. It is widely used in fields such as civil engineering, geotechnical mechanics, and earthquake monitoring.



Features of Product

- ◇ Wide range of measurement, ranging from 10KPa to 60MPa in any range
- ◇ Micro pressure sensor with small external dimensions, minimum diameter of 10mm, thickness of 5.3mm
- ◇ Wide temperature range, from low temperature -40°C to high temperature 80°C
- ◇ Good long-term stability and resistance to various harsh environments
- ◇ Customized according to customer requirements

Product Parameters

1. Any range between: 10KPa~60MPa
2. Scope of application: Dynamic and static model tests (under appropriate conditions, can also be used for on-site testing)
3. Accuracy: 0.5% FS
4. Full process output (μe): 0 pressure 1500 (theoretical)
5. Bridge resistance (Ω): 350 full bridge
6. External dimensions (mm): $\varnothing 28 \times 5.5$, $\varnothing 16 \times 5.5$, $\varnothing 11 \times 5.5$, Customizable external dimensions
7. Waterproof performance: can work in a medium full of water
8. Operating temperature range ($^{\circ}\text{C}$): $-40 \sim +80$
9. Output method: rear output, measurement output
10. Bridge voltage (V): 2
11. Using strain amplifier sensitivity coefficient K: 2.00
12. Lead out length (m): 4-core shielded cable, 3 meters (customizable)
13. Overload capacity (%): 150% within the rated range
14. Output line bridge markers: red (Eg+), white (Vi+), green (Eg-), black (Vi-)

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