

# Micro soil temperature sensor and transmitter

## 1、 Product Introduction

Due to the requirements for the measured flow field and placement position, it is necessary to measure the temperature in situ and reproduce the temperature change law of the 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 HC-28 micro temperature sensor is designed for the above working conditions. This series of products uses micro machined platinum thermistor PT100/PT1000 as the core component, stainless steel structure, high-precision integrated electronic components, and uses international advanced miniaturization production and packaging technology to exquisitely package the sensor chip and circuit board. The product has a small volume, compact structure, light weight, strong durability, and excellent measurement accuracy, reliability, and stability. This series of products is particularly suitable for civil engineering, geotechnical mechanics, and shrinkage. Many research fields and on-site applications such as model testing; This product is sealed with glue and can be soaked in water for use, completely waterproof.



## 2、 Product parameters

Product model: HC-28

Power supply voltage: 12-24VDC

Output signal: Current output 4-20mA, voltage output 0-5VDC, digital output RS485, customizable

Measurement range: Any choice between -200 °C and 450 °C, customizable range, with a requirement for a temperature difference of  $\geq 50$  °C between the upper and lower limits

Measurement accuracy:  $\pm 0.2\%$  FS

External dimensions: minimum diameter 1.5mm, size customizable

Shell material: 316 stainless steel

Cable length: standard configuration of 3 meters

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