



## Agricultural IoT Product Provider



**Make agricultural production smarter and more efficient  
Help farmers increase production and income**



Temperature / Humidity



Water



The soil



Environment



Sensing



## Company introduction

Changsha Zoko Link Technology Co., Ltd. (Brand: NiuBoL) : production and sales of soil nitrogen, phosphorus and potassium sensors, soil PH sensors, soil moisture sensors, soil temperature and humidity sensors, soil Electrical conductivity sensors, automatic weather stations, wind speed sensors, wind direction sensors, ultrasonic integrated sensors, louvered box temperature, humidity and pressure sensors, rain sensors and other sensors, and widely used in poultry breeding , greenhouse automation, irrigated agriculture, forest monitoring, digital agriculture and other application scenarios.

With reliable quality, complete range and reasonable price, our products are exported to many countries such as USA, Argentina, Egypt, India, Thailand, Singapore, Malaysia and Australia. And we will always keep the momentum of development, continue to deeply expand the market, and cooperate with everyone for a win-win situation.

Whether it is treating products or customers, we have always been adhering to the business management philosophy of "seeking truth and being pragmatic, and striving for excellence". When dealing with products, every employee of Zhongke Zhilian is meticulous, and firmly grasps the quality of each product. When treating customers, we will provide the most professional advice and provide customers with the most professional and most suitable products. For after-sales, we value every customer's feedback and deal with customer needs immediately. A perfect after-sale can best reflect the true value of a product.

### Core competence



#### Focus on agriculture

Deep technical precipitation  
User-centric  
Boutique to open up the market



#### Fully self-produced

Professional R&D team  
Standardize the production base  
Standard Quality Control



#### One-stop customized service

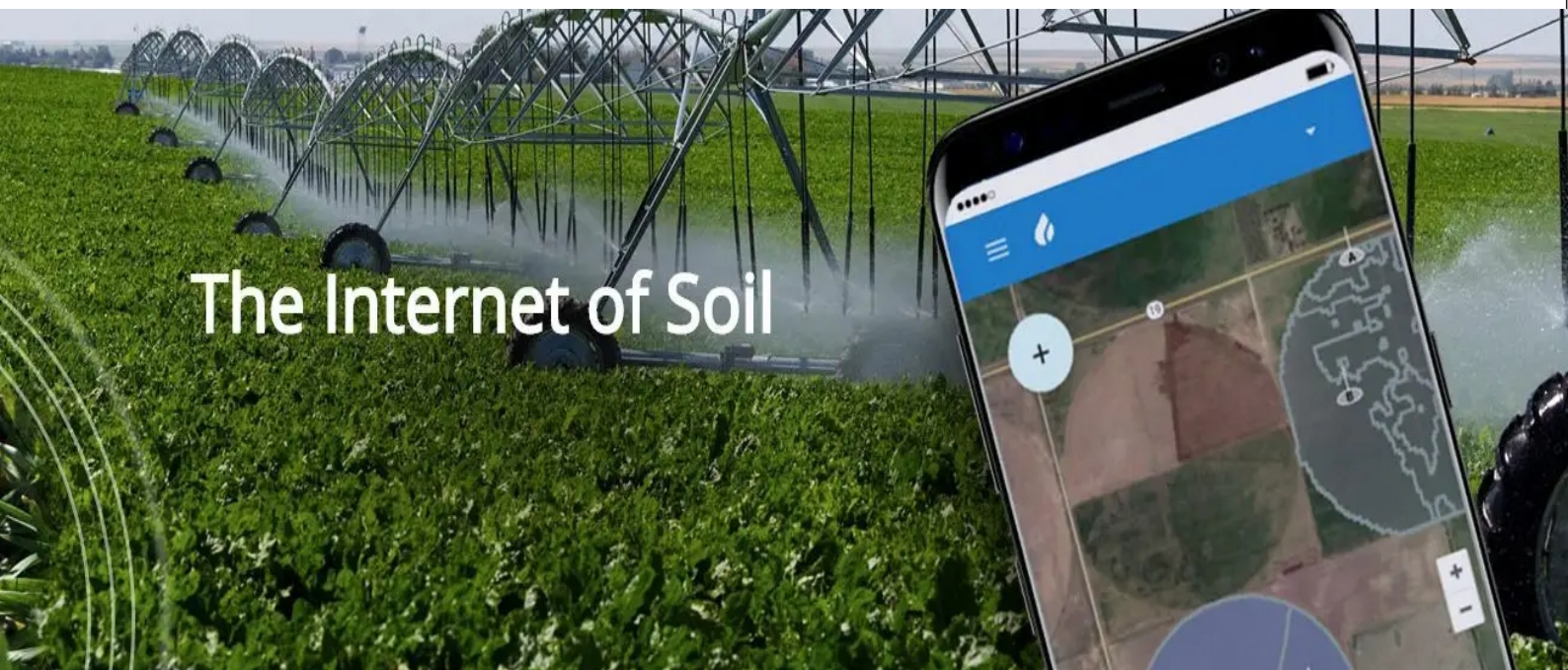
Better understanding of needs tailor-made  
System integration extension development  
Customized special service



#### Sound service system

Professional marketing team  
Efficient technical support  
Reliable after-sales service





The Internet of Soil

## Soil sensor series



NBL-S-THR/Soil temperature and humidity sensor is a high-precision, high-sensitivity soil moisture measuring instrument. The electromagnetic wave pulse emitted by the sensor is transmitted to the probe through the coaxial cable, and then enters the soil medium to measure the apparent dielectric constant of the soil, thereby obtaining the real water content of the soil. The influence of metal ions, etc.

It can be widely used in soil moisture monitoring, water-saving irrigation, greenhouses, grassland pastures, soil rapid testing and other fields.

### Performance characteristics

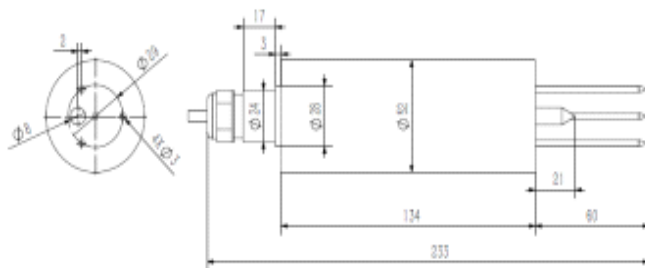
- ▮ Simultaneously measure soil temperature and soil moisture
- ▮ Withstand strong external impact, not easy to damage
- ▮ Completely sealed, acid and alkali corrosion resistant
- ▮ High precision, fast response, good interchangeability



### Technical parameter

Measuring range	Soil wetness 0-100%, soil temperature 50-100°C
Power supply method	DC 12-24V
Resolution	Soil moisture 0.1%, temperature 0.1°C
Accuracy	Soil humidity ±3%, temperature ±0.5°C
Product power consumption	1.8mW
Signal output	Rs485/Current 4 ~ 20mA (RL≤250Ω) Voltage 0-5V (RL≥1KΩ)
Product power consumption	About 0.3W
Runtime environment	-40°C ~ 80°C
Protection class	Ip68
Measurement principle	Frequency Domain Reflectometry (FDR)
Interchange accuracy	<3%
Retest error	<1%
Response time	<1S
Measurement settling time	1S

### Product Size



### Installation method



vertical measurement (1)



Buried measurement (2)

### Instructions for use

Wire the sensor according to the instructions in the wiring method, then insert the probe pin of the sensor into the soil where the humidity is to be measured, turn on the power supply and the switch of the collector, and then the soil temperature and humidity at the measurement point can be obtained.

### Application field



Agricultural irrigation



Greenhouse farming



Soil Quick Test



Meadow pastures



Flowers and vegetables



## Product application scenarios



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