



## 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



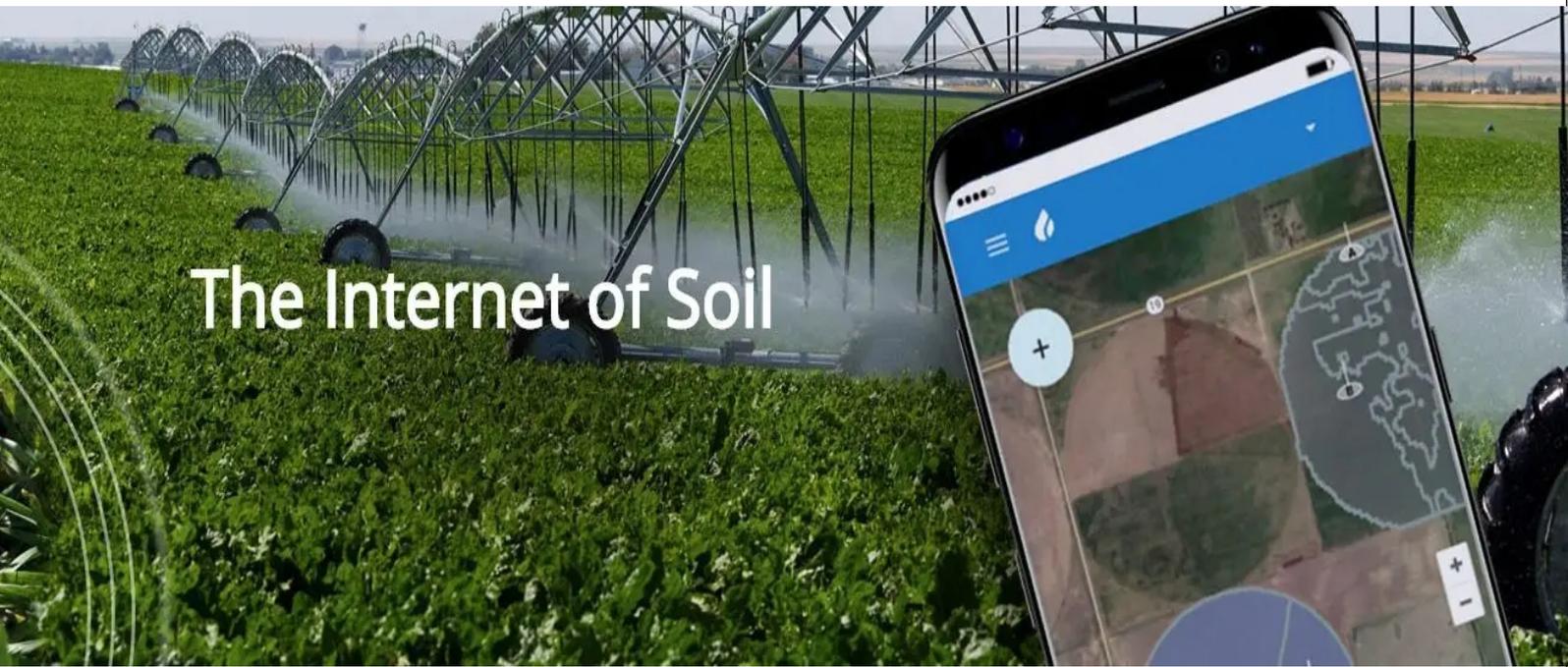
#### One-stop customized service

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-TH/The soil temperature and humidity sensor has stable performance and high sensitivity, and can measure soil temperature and soil moisture at the same time; by measuring the dielectric constant of soil, it can directly and stably reflect the real water content of various soils. The soil moisture sensor can measure the volume percentage of soil moisture and is a soil moisture measurement method in line with current international standards.

Suitable for soil moisture monitoring, scientific experiments, agricultural irrigation, greenhouses, flowers and vegetables, grassland and pastures, soil rapid testing, plant cultivation and other occasions.



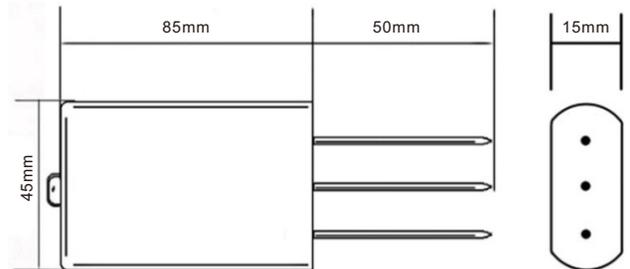
### Performance characteristics

- | 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

Soil temperature range	-40~80°C Resolution: 0.1, Accuracy: ±0.5
Soil moisture range	0-100%RH Resolution: 0.1%RH, Accuracy: 5%
Supply voltage	DC5V-24V
Signal output	<input type="checkbox"/> RS485 <input type="checkbox"/> Modbus protocol
Measurement principle: soil moisture FDR	
Protection class	Ip68 submerged in water for long-term use
Operating environment	-40~85°C
Probe material: anti-corrosion special electrode	
Sealing material	Black flame retardant epoxy resin
Installation method: all buried or all probes are inserted into the measured medium	
Default cable length: 5 meters, cable length can be customized	
Connection method	Pre-assembled cold-pressed terminals
External dimensions	45*15*135mm
Electrode length	50mm

### 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 to be measured, turn on the power supply and the switch of the collector, and you can obtain the soil temperature and soil moisture at the measurement point

### Application field



Agricultural irrigation



Greenhouse farming



Soil Quick Test



Meadow pastures



Flowers and vegetables

## Product application scenarios



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**NiuBoL**

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