

Soil tension sensor

Model ES-S2285



Main features

- The shell is made of transparent PVC plastic tube
- Intuitive observation of water level, fast response speed
- Select high-quality clay head, fast water permeability and airtightness, high sensitivity.
- Not affected by salt ions in the soil
- 10-24V wide voltage power supply.

Application

- Soil moisture monitoring
- Scientific experiments
- Water-saving irrigation
- Greenhouses
- Flowers and vegetables
- Grassland pastures
- Plant cultivation
- Fine agriculture

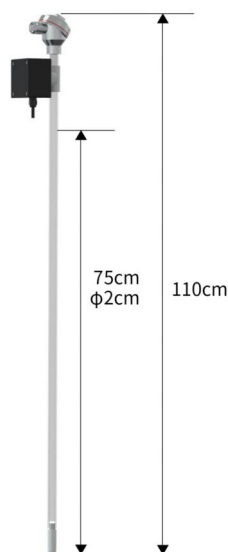
Introduction

When the soil tension sensor collects the dynamic content data of soil moisture of the planted crops, it can take more accurate irrigation measures according to the growth changes of the crops. It can not only record the soil tension change data, but also help growers to continuously supplement the soil environment data.

ES-S2285 soil tension sensor uses a transparent PVC plastic tube, which can clearly show the amount of remaining water in the equipment, making it convenient to add water. The product is suitable for places where soil moisture and drought information need to be detected. It is mostly used to monitor whether crops are short of water in agricultural crop planting, so as to better irrigate crops.

When it uses standard 4~20mA analog signal output, it can be connected to on-site digital display meters, PLCs, inverters, industrial control hosts and other equipment. When it uses standard ModBus-RTU485 communication, it can communicate up to 2000 meters.

Dimension



*The length may vary depending on the measurement depth

Specification

Power supply mode	10-24V wide DC power supply
Transmitter element temperature resistance	0~+80°C
Measurement range	-100kPa-0
Measurement accuracy	±0.5kPa (25°C)
Resolution	0.1kPa
Shell material	Transparent PVC plastic tube
Protection level	IP67
Output signal	4~20mA current output, RS485 (ModBus protocol)
Power consumption	0.5W (4-20mA), 0.8W (RS485) (DC24V)
Response time	200ms

Order guide

ES-S2285	Soil tension sensor		
	CODE	Measuring depth	
	15	15cm	
	30	30cm	
	45	45cm	
	60	60cm	
	75	75cm	
	90	90cm	
	105	105cm	
	120	120cm	
		CODE	Signal output
		1	RS485
		2	4~20mA
ES-S2285	15	1	Order example