

Soil parameters measuring

Temperature	<ul style="list-style-type: none">• Measuring range: -40°C-80°C• Accuracy: $\pm 5^{\circ}\text{C}$ (25°C)• Long-term stability: $\leq 0.1\%^{\circ}\text{C}/\text{y}$• Response time: $\leq 15\text{s}$
Humidity	<ul style="list-style-type: none">• Measuring range: 0-100%RH• Accuracy: 2% within 0-50%, 3% within 50-100%• Long-term stability: $\leq 1\% \text{RH}/\text{y}$• Response time: $\leq 4\text{s}$
Conductivity (EC)	<ul style="list-style-type: none">• Measuring range: 0-200000us/cm• Accuracy: 0-10000 us/cm range is $\pm 3\%$; 10000-20000 us/cm range is $\pm 5\%$• Long-term stability: $\leq 1\% \text{uS}/\text{cm}$• Response time: $\leq 1\text{s}$
PH	<ul style="list-style-type: none">• Measuring range: 3-9 PH• Accuracy: $\pm 0.3\text{PH}$• Long-term stability: $\leq 5\%/\text{year}$• Response time: $\leq 10\text{S}$
Nitrogen Phosphorus Potassium	<ul style="list-style-type: none">• Measuring range: 1-1999 mg/kg(mg/L)• Accuracy: $\pm 2\% \text{FS}$• Response time: $< 1\text{S}$

Optional Types:

Model	Specification
CWT-SOIL-PH-S	Soil PH, RS485 output
CWT-SOIL-PH-A	Soil PH, 4-20mA output
CWT-SOIL-PH-V5	Soil PH, 0-5V output
CWT-SOIL-H-S	Soil Humidity (moisture), RS485 output
CWT-SOIL-H-A	Soil Humidity (moisture), 4-20mA output
CWT-SOIL-H-V5	Soil Humidity (moisture), 0-5V output
CWT-SOIL-H-V10	Soil Humidity (moisture), 0-10V output
CWT-SOIL-TH-S	Soil Temperature + Humidity (moisture), RS485 output
CWT-SOIL-TH-A	Soil Temperature + Humidity (moisture), 4-20mA output
CWT-SOIL-TH-V5	Soil Temperature + Humidity (moisture), 0-5V output
CWT-SOIL-TH-V10	Soil Temperature + Humidity (moisture), 0-10V output
CWT-SOIL-HC-A	Soil Humidity (moisture) + conductivity (EC), 4-20mA output
CWT-SOIL-HC-V5	Soil Humidity (moisture) + conductivity (EC), 0-5V output
CWT-SOIL-HC-V10	Soil Humidity (moisture) + conductivity (EC), 0-10V output
CWT-SOIL-THC-S	Soil Temperature + Humidity (moisture) + conductivity (EC), RS485 output
CWT-SOIL-NPK-S	Soil Nitrogen + Phosphorus + Potassium, RS485 output
CWT-SOIL-THPH-S	Soil Temperature + Humidity (moisture) + PH, RS485 output
CWT-SOIL-CPH-S	Soil Conductivity (EC) + PH, RS485 output
CWT-SOIL-THCPH-S	Soil Temperature + Humidity (moisture) + Conductivity (EC) + PH, RS485 output
CWT-SOIL-NPKPH-S	Nitrogen + Phosphorus + Potassium + PH , RS485 output
CWT-SOIL-NPKTHPH-S	Soil Temperature + Humidity (moisture) + PH + Nitrogen + Phosphorus + Potassium, RS485 output
CWT-SOIL-NPKPHC-S	Soil Nitrogen + Phosphorus + Potassium + PH + Conductivity (EC), RS485 output
CWT-SOIL-NPKPHCTH-S	Soil Nitrogen + Phosphorus + Potassium + PH + Conductivity (EC) + Temperature + Humidity (moisture), RS485 output
CWT-SOIL-THCNPK-S	Soil Temperature + Humidity (moisture) + Conductivity (EC) + Nitrogen + Phosphorus + Potassium, RS485 output

Basic Parameters

Power supply	DC4.5-30V
Max Power consumption	0.5W@24V DC
Protection class	IP68, long-term immersion in water use
Cable length	Default is 2m (can be customized)
Operating environment	-40°C-80°C
Overall dimensions	45* 15 * 123mm
Output	RS485/4-20mA/0-5V/0-10V



