

SM3001M

SONBEST SM3001M 4-20mA current type soil moisture sensor

User Manual

File Version: V23.8.1

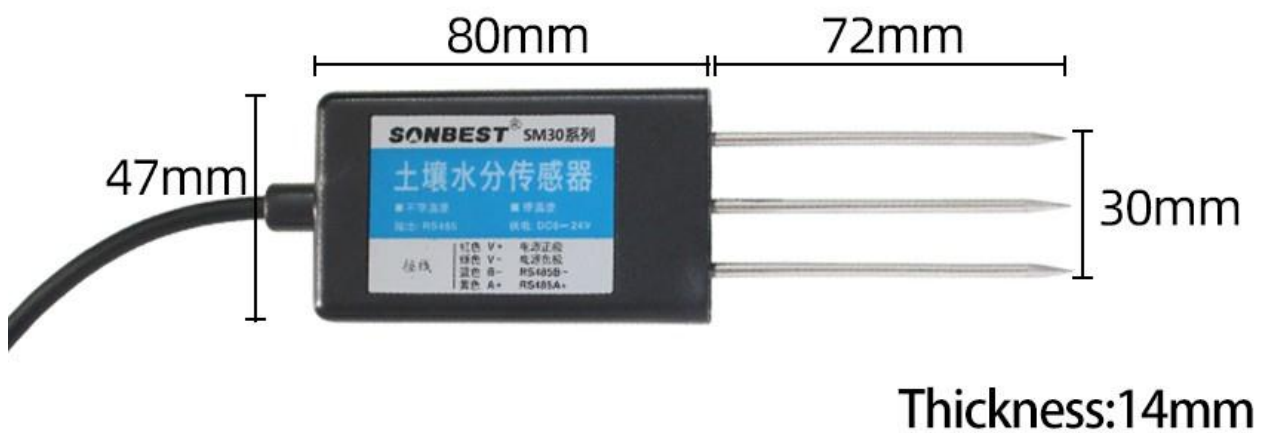


SM3001M using the standard DC4-20mA current output signal,easy access to PLC , DCS and other instruments or systems for monitoring 24%soil Moisture state quantities.The internal use of high -precision sensing core and related devices to ensure high reliability and excellent long-term stability,can be customized RS232,RS485,CAN,4-20mA,DC0~5V\10V,ZIGBEE,Lora,WIFI,GPRS and other output methods.

Technical Parameters

Technical parameter	Parameter value
Brand	SONBEST
Moisture measuring range	0~24%
Moisture measuring accuracy	±3% @25℃
Communication Interface	DC4~20mA
Power	DC12~24V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Size



Wiring instructions

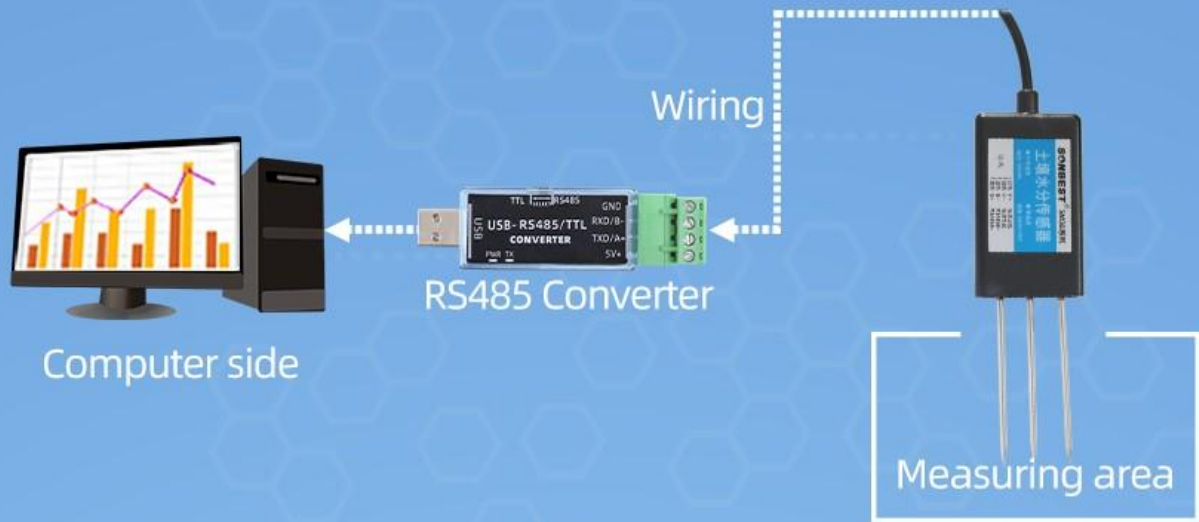
In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

How to use?

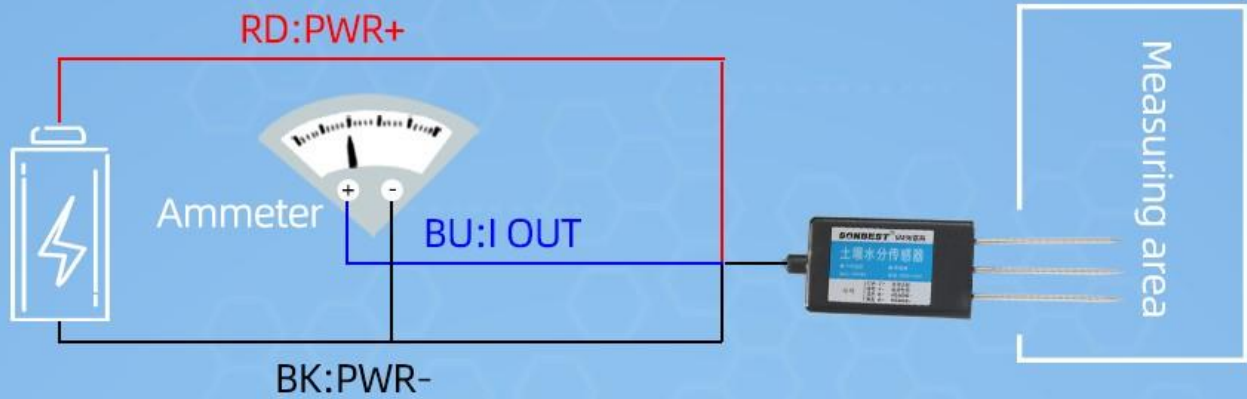
The soil moisture sensor is suitable for scientific experiments, water-saving irrigation, greenhouses, flowers and vegetables, grassland pastures, soil rapid measurement, plant cultivation, sewage treatment, and the measurement of various particulate matter volume.



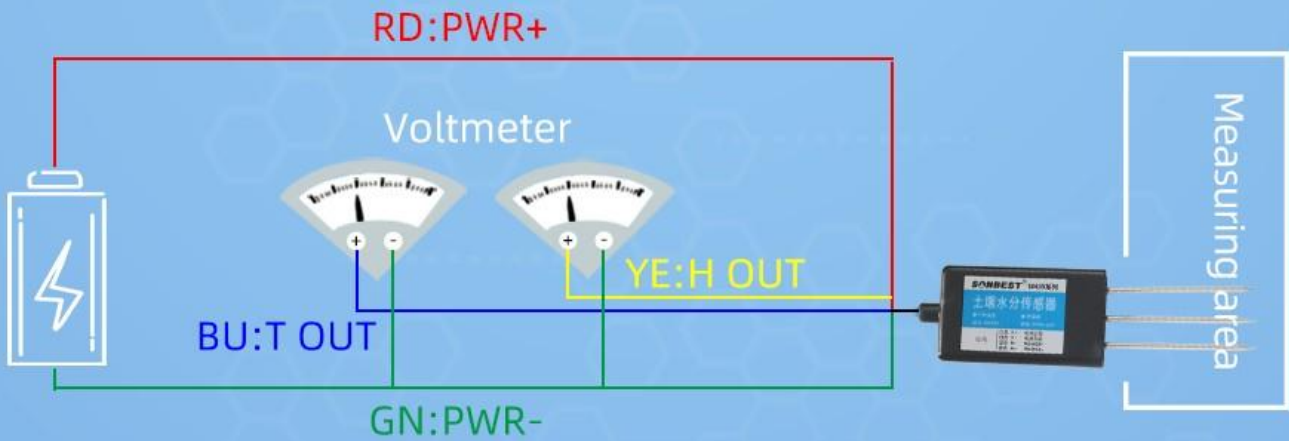
Application solution



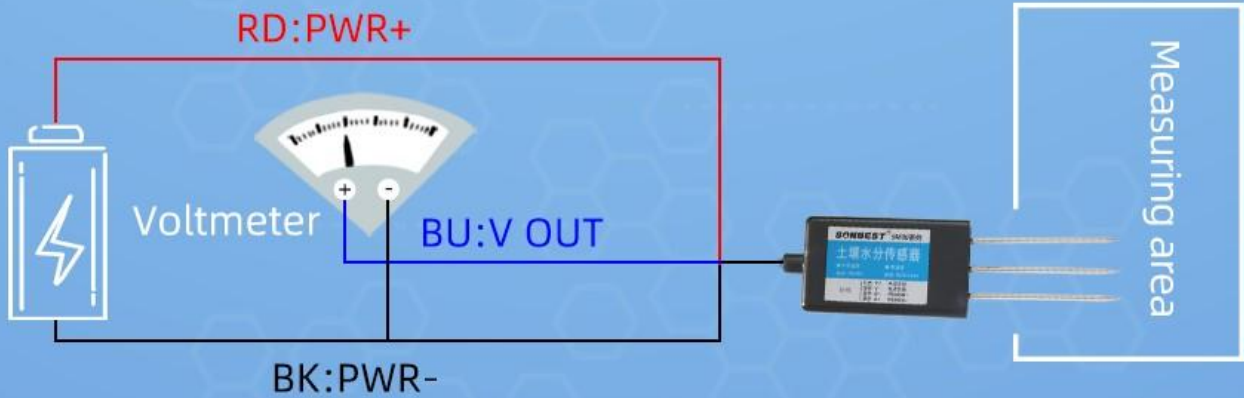
■ 4~20mA Instructions



■ V H&T Instructions



■ V Single moisture Instructions



MEASUREMENT METHODS



► Rapid measurement

Choose a suitable measurement location, avoid stones, dig out the top soil according to the depth required for measurement, maintain the original tightness of the underlying soil, hold the sensor vertically into the soil, and do not shake it left and right when inserting to ensure close contact with the soil



► Burial survey

Dig a pit with a diameter of about 20cm vertically, and insert the steel needle of the sensor into the pit horizontally according to the measurement needs, compact the soil in the pit to ensure close contact with the soil. After the sensor is stable for a period of time, continuous long-term measurement and recording

Product List



SM30/31 Series

Soil single humidity/temperature and humidity sensor
(Shipped according to options) (without power supply)



Warm reminder card



Certificate of conformity

Disclaimer

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