



miniUNI Soil Moisture

miniUNI Soil Moisture device is dedicated for soil moisture and temperature measurement by inserting a rod with sensors into the soil. Special sensor for soil moisture measurement has been used – Watermark which works on principle of water absorption to gypsum granulate. This principle eliminates influence of soil salinity or microbiological content. Thermometer is integral part of sensor body, which is very important for further soil moisture calculation. The rod is very robust and made of special fibre carbon material to survive severe condition in outside aggressive environment.

Usage

- Irrigation optimization
- Mold and plant disease prediction
- Long term soil moisture monitoring
- Proper condition for planting prediction



Parametrs

miniUNI soil moisture	Parametr
Protection	IP65
Power	3.6V lithium battery ER14500M/2600mAh , 2 batteries possible in paralel order to double the capacity
Power consumption	<6uA deep sleep/400mA transmission peak
Battery lifetime	cca 10 000 transmission
Radio	Sigfox, LoRaWAN, NBloT
Dimension	107 x 65 x 33 – rádiová jednotka s vývodkami + 1m tyč
weight	380g
Soil moisture sensor	Davis Instruments D6440
Thermometer	DS18B20
Antenna	Helical, gain 2dBi or external 2 to up to 5dBi
Configuration	UART – terminal, downlink

