

# digitech

## WIRELESS SOIL MOISTURE & TEMPERATURE SENSOR XC0439

### User Manual

Thank you for selecting this Wireless Soil Moisture & Temperature sensor. This manual is used for AU version. Please read the instructions carefully according to the version you purchased and keep the manual well for future reference.

### IMPORTANT NOTE

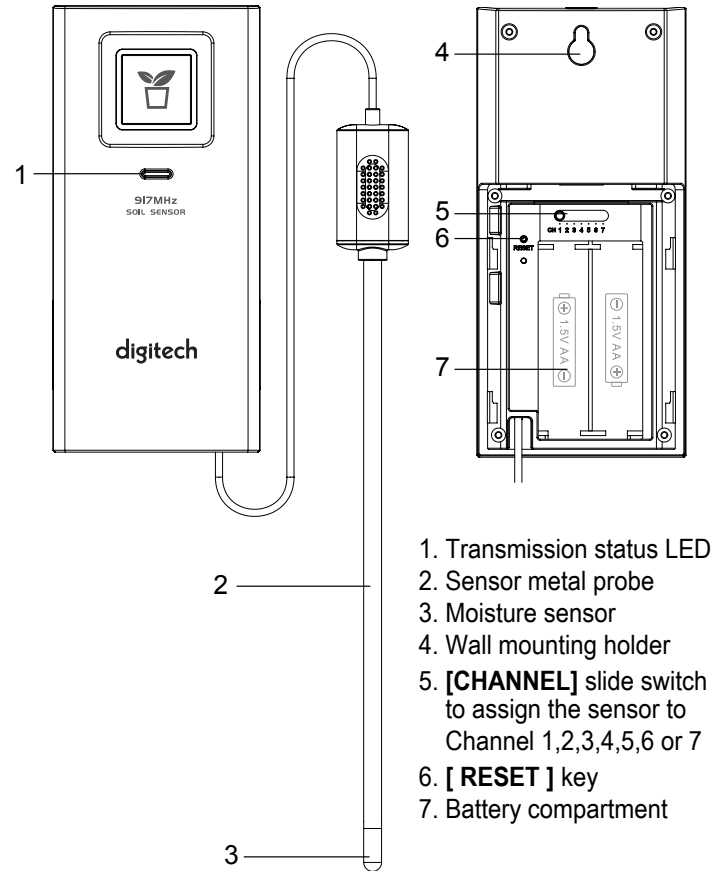
- Read and keep these instructions.
- Do not cover the ventilation holes with any items such as newspapers, curtains etc.
- Do not clean the unit with abrasive or corrosive materials.
- Do not tamper with the unit's internal components. This invalidates the warranty.
- Only use new batteries. Do not mix new and old batteries.
- Do not dispose of old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- Attention! Please dispose of used unit or batteries in an ecologically safe manner.
- Technical specifications and user manual contents for this product are subject to change without notice.

### CAUTION

- Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- The battery cannot be subjected to high or low extreme temperatures, low air pressure at high altitude during use, storage or transportation.
- Replacement of a battery with an incorrect type can result in an explosion or the leakage of flammable liquid or gas.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- An appliance is only suitable for mounting at a height of less than 2m.



### OVERVIEW



## GETTING STARTED

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1. Remove the battery cover.
2. Slide the [ **CHANNEL** ] slide switch to choose a channel.
3. Insert 2 x AA size batteries into the battery compartment according to the polarity mark on the battery compartment.
4. Close the battery cover.
5. After inserting batteries, the transmission status LED will light up for 1 sec.

### **Note:**

- Ensure to assign different channels of different sensors, in case you need to pair more than one sensor.
- Once the channel is assigned to a Wireless Soil Moisture & Temperature sensor, you can only change it by removing the batteries or resetting the unit.
- Avoid placing the sensor in direct sunlight, rain or snow.

## PAIRING THE WIRELESS SENSORS WITH THE CONSOLE

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The console will automatically search and connect to your wireless sensor(s). Once your sensor(s) pair ups successfully, the sensor(s) signal strength indication and weather information will appear on your console display.

### **Note:**

During signal transmission, the LED indicator of the sensor will flash.

## TEMPERATURE DISPLAY

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On the display of the console which the soil sensor is linked to, a temperature reading will be displayed.

## SOIL MOISTURE DISPLAY

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Soil moisture can be clarified into 5 different levels: **Very Dry, Dry, Moist, Wet and Very Wet.**

To determine the moisture of soil, the sensor calibrates the moisture into 16 points, and correlates them into percentage value:

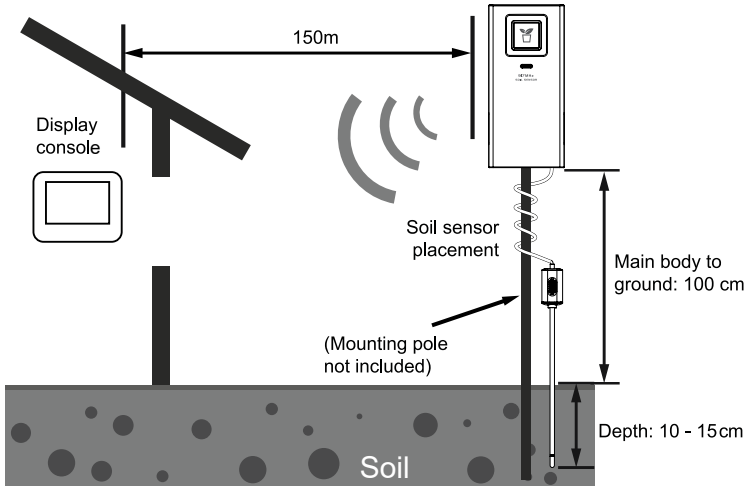
Points	Percentage	Level
1	0%	Very Dry
2	7%	
3	13%	
4	20%	
5	27%	
6	33%	Dry
7	40%	
8	47%	
9	53%	
10	60%	Moist
11	67%	
12	73%	
13	80%	Wet
14	87%	
15	93%	Very Wet
16	99%	

### **Note:**

The measurement accuracy of the sensor can be affected by the soil condition. For example, the loose soil may get a lower moisture level compared with the dense soil.

## SENSOR PLACEMENT

Select the suitable installation site that inserts the sensor probes into the soil around 100mm (4 inch) and the sensor should be placed within 30 meters of the display console to get the best transmission performance.



### Note:

The signal transmission range of the sensor will be gradually reduced as the sensor is inserted deeper into the soil. To achieve the best transmission range, install the sensor on the same plain of view as the display console.

## RESET THE SENSOR

In case of mal-function, press the [ **RESET** ] button to reset the sensor.

## SPECIFICATIONS

Dimensions (W x H x D)	125 x 58 x 19 mm (4.9 x 2.2 x 0.7 in)
Weight	144g (with batteries)
Main power	2 x AA size 1.5V batteries (Lithium battery recommended for low temperature environment)
Weather data	Soil temperature and moisture
RF frequency	917Mhz (AU)
RF transmission range	150m (492 feet) straight distance
Temperature Accuracy	-5°C ~ -0.1°C ± 2°C (23 ~ 32°F ± 4°F) 0 ~ 40°C ± 1°C (32 ~ 104°F ± 2°F) 40.1 ~ 50°C ± 2°C (87 ~ 122°F ± 4°F) Below -5°C (23°F) or above 50°C (122°F not guarantee the accuracy)
Moisture Accuracy	0% ~ 99%
Number of channels	7 (CH1 ~ 7)
Transmission interval	60 seconds
Operating temperature range	-20 ~ 60°C (-4 ~ 140°F) not recommend under freezing conditions
Operating soil moisture range	0% to 99%

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