



## XT-TREE

wireless soil conditions sensor

XT-TREE is a moisture sensor for measuring soil conditions in depths down to 150CM. The device is also equipped with a light and soil temperature sensor. These internal sensors are used to improve the moisture sensor reading and to be used as an extra sensor.

It operates completely independent immediately after being inserted into the growing media. The device sends data via the worldwide sigfox network and various global LoRaWAN network operators. A redundant and real independent hybride IoT solution.

The sensor is to be used in the open field and made to be entrenched near the desired root depth.



## Specifications - XT-TREE

Parameter name	Value
Body dimensions	66 x 42 x 22 mm (Height x Width x Depth without probes)
Sensors	4 layers Substrate moisture (VWC), Substrate temperature, Light
Substrate temperature	-20 – 65 °C ±2 %
Light	0 – 150k lux ±5 %
Moisture sensor VWC	min 0.4 % (depends on substrate texture and insertion)
Installation depth	sensor can be burried down to 150 cm
Sampling rate	configurable from 5 minutes up to 4 hours (battery saving)
Measurement configuration	sampling rate, sensor usage, measurement accumulation
Configuration gate	<a href="http://admin.mytentacles.com">admin.mytentacles.com</a>
Data access	<a href="http://dashboard.mytentacles.com">dashboard.mytentacles.com</a>
Configurable webhook	<a href="http://admin.mytentacles.com">admin.mytentacles.com</a>
Battery life	up to 15 years (depends on sampling and message rate)
Antenna-type	Omni Whip detachable
Operating temperature	+5 – 65 °C
To be used in	the open field