



4XT-M

wireless growing media conditions sensor

4XT-M is a moisture sensor that measures within 4 layers: top, middle, bottom and overall: the Volumetric Water (VWC) of growing media (slabs, substrate, soil, pot and open field). 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.

To be used in pot sizes 8,5 – 17, slabs and the open field.



Specifications - 4XT-M

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)
Substrate probe length	111 mm
Sampling rate	configurable from 5 minutes up to 4 hours (battery saving)
Measurement configuration	sampling rate, sensor usage, measurement accumulation
Configuration gate	admin.mytentacles.com
Data access	dashboard.mytentacles.com
Configurable webhook	admin.mytentacles.com
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	pot sizes 8,5 – 17, slabs and the open field