



Summary

Moisture - Optimal Watering

Optimal watering pays off in spades. Crops and trees with sufficient water experience optimal root growth. They are also better able to form symbiotic relationships with soil life. As a result, both the crop/tree and the soil life are more vigorous, healthier, and less susceptible to diseases and pests. This translates into lower cultivation or maintenance costs and higher yields.

Insufficient moisture results in root death and the dying off or encapsulation of soil life. When soil moisture levels are restored, the crop/tree must repeatedly draw from its reserves to create new roots and reestablish the symbiosis with soil life.

Provide the right amount of water at the right time for optimal growth!

Connectivity

Cellular LTE-M / NB-IoT

Modem works on all major global LTE-M and NB-IoT brands.

SIM card size

Internal Micro 3FF SIM card

Maintenance

Rechargeable battery

3500mAh LiPo

Battery life

~ 1 year

Casing

Dimensions	75mm in diameter and 160 mm in length
Weight (including sensor and battery)	~ 580 grams
Material	Polyvinyl chloride
IP-code	IP68
Temperature	-30 °C to +60 °C
Installation	Above ground level with solar panel or for public area's just below ground level MOIST_S_M above ground solar ready MOIST_R_M for below ground level

Location

Manual	Using software
GPS antennal	Internal

Security

Data security	Military-level AES-256 Encryption from device to Device Manager to protect the integrity and confidentiality of telematics data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security.
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Soil Moisture - Volumetric Water Content (VWC)

Range	0 – 0.5 m ³ /m ³ (0 – 50 % VWC)
Accuracy	± 0.03 m ³ /m ³ (± 3 % VWC)
Resolution	± 0.001 m ³ /m ³ (0.1 % VWC)
Temperature drift	Typically, less than 0.002 m ³ /m ³ (0.2 % VWC)
Temperature	-20 °C to 80 °C (readings below 0°C are meaningless)
Dimensions	170 mm x 25 mm x 25 mm (L x W x H)
Weight	52 grams
Cable length	± 280 cm
Lifespan	> 3 years

Warranty

Factory warranty

1 year if it can be demonstrated that it concerns a manufacturing defect. In case of improper use, repair costs will be charged.

Contact

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