

Technical specifications

Dimensions (H x W x D)	Electronic device: 40mm x 40mm x 20mm ± 5%
	Sap probe: 100mm x 2mm ±5%
Weight	Electronic Device: 40g ±10%
	Sap probe: 1.5 g ±10%
Battery	Li-PO 3.7V 7000 mAh, rechargeable
Internal Memory	Yes
IP Grade	IP65
Materials	Device shell: ABS and Megol TPS-SEBS rubber and nitrile inserts
	Sap probe: Absorbent rigid support, electrodes, sheath

Use

Data transmission	LoRaWAN
GUI	WebApp
Display	RGB LED (Operation Indicators) + RED
	LED (Charging Indicators)
Power	Rechargeable battery (Li-Po)
Battery life	Estimated to be more than one year.
Loader	Solar Panel
Charging time	Always charging

Functions

Data collection	By monitoring the sap circulating in the plant and absorbed by the sensor, the following is determined:
	Change in sap mineral salts
	concentration (correlated with
	physiological changes in plant
	stress)

PLANTVOICE S.R.L. SB Via Alessandro Volta 13/A – 39100 Bolzano (BZ) T: +39 371 183 8259 info@plantvoice.it



	Variation in sap flow (correlated with physiological changes in plant stress) Plant Health (Stress (alart when the
	 Plant Health/Stress (alert when the plant deviates from its ideal course)
	plant actiates ironnits lacar coarse)
Internal memory	Yes (over one year capacity)

App: Features

Data analysis	Cloud analysis through AI algorithms that allow you to understand the conditions of the plant in real time
Visualization of the plant indicators	Yes, you can see the following indicators: Plant healthDevice battery levelWeather data
User Feedback	 Indicates the state of health/stress of the plant Predicts the quality of cultivation (after learning the AI system) Predicts crop productivity (after learning the AI system) Low battery level Device and/or plant issues
Types of algorithms	Al predictive algorithms (with machine learning capabilities) aimed at improving field productivity, evaluating what makes crops efficient and evaluating how to maximize water savings.
Viewing Previous Monitors	Yes
Comparison of monitors	Yes
Battery level of the electronic device	Yes. The battery charge level (as a percentage of full charge) is indicated and a warning if the level is too low for an accurate reading of the data.