



# Nature 4.0

Inspired to invent change

**Nature 4.0 Società Benefit Srl**

Via della chimica, 7

01100 Viterbo (VT)

P.I. 02507200224

[www.nature4.org](http://www.nature4.org)

[info@nature4.org](mailto:info@nature4.org)

Tel. +39 0761 419439

## PRICE LIST 2025

| PRODUCTS   | VERSION  | PRICE (EURO) |
|--|--|--------------|
| <p><b>TreeTalker®Cyber</b></p> <ul style="list-style-type: none"> <li>Monitoring Tree functions (1 hour sampling rate)</li> <li>Transpiration (sap flow)</li> <li>Spectrometer for canopy light transmission 28 bands (410-940nm)</li> <li>Radial growth (accuracy <math>\pm 10 \mu\text{m}</math> -resolution 0.5 <math>\mu\text{m}</math>)</li> <li>Stem 3D position (for tree stability studies) <math>\pm 0.05^\circ</math></li> <li>Air Temperature (-40 to +85°C <math>\pm 0.2^\circ\text{C}</math> max) and Humidity (0 to 100 % <math>\pm 1.8\%</math> Typ.)</li> <li>Flash Memory for data storage 16 Mbyte</li> <li><b>Probe forest included</b></li> <li><b>External battery not included, EB Power required</b></li> </ul> | <p><b>LoRa</b> module</p>  | 420          |
|  | <p><b>NB-IoT</b> module</p>  | 510          |
| <p><b>Mini Probe</b></p>   | <p>Triple probe suitable for small diameter woody crops – length 8 mm – diameter needle 2mm – spacing 7,5 mm</p> | 40           |
| <p><b>Probe Forest</b></p>   | <p>Triple probe – length 29 mm – diameter needle 2mm - spacing 7,5 mm</p>  | 15           |
| <p><b>TreeTalker®G Gyroscopic</b></p> <ul style="list-style-type: none"> <li>3D position of stem or branch (application for stability warning in urban environments)</li> <li><b>Internal battery included</b></li> </ul>  | <p><b>LoRa</b> module</p>  | 150          |
| <p><b>TreeTalker® Radiation</b></p> <ul style="list-style-type: none"> <li>Spectrometer 28 bands (410-940 nm)</li> <li>Air Temperature (-10 to +85°C <math>\pm 1^\circ\text{C}</math> max) and Humidity (0 to 90 % <math>\pm 5\%</math> Typ.)</li> <li><b>External battery pack included</b></li> <li>It can be placed outside the canopy to be used as reference for solar radiation</li> </ul>   | <p><b>LoRa</b> module</p>  | 370          |
|  | <p><b>NB-IoT</b> module</p>  | 405          |

|  |   |     |
|--|---|-----|
| <p style="text-align: center;"><b>TreeTalker®Carbon</b></p> <ul style="list-style-type: none"> <li>Autonomous dendrometers</li> <li>Capturing and monitoring radial growth</li> <li>Accuracy± 10 µm -resolution 0.5 µm</li> <li><b>External battery not included, EB Power required</b></li> </ul> | <b>LoRa</b> module  | 225 |
|  | <b>NB-IoT</b> module  | 290 |
| <p style="text-align: center;"><b>TreeTalker® Soil</b></p> <ul style="list-style-type: none"> <li>Soil temperature and humidity (capacitance probe)</li> <li>Air Temperature and Humidity</li> <li>Flash memory for data storage 16Mbyte</li> <li><b>Internal battery pack included</b></li> </ul> | <b>LoRa</b> module  | 245 |
|  | <b>NB-IoT</b> module  | 275 |
| <p style="text-align: center;"><b>TreeTalker®Water</b></p> <ul style="list-style-type: none"> <li>Transpiration (sap flow)</li> <li><b>Mini probe included</b></li> <li><b>External battery not included, EB Power required</b></li> </ul>   | <b>LoRa</b> module  | 210 |
|  | <b>NB-IoT</b> module  | 245 |
| <p style="text-align: center;"><b>EB Power</b></p> <ul style="list-style-type: none"> <li>Battery pack</li> </ul>  | High capacity 30000mAh power bank (Polymer Lithium Ion) with voltage protection controller  | 130 |
| <b>CH Charger</b>  | Fast charger for 10 battery packs   | 460 |
| <p style="text-align: center;"><b>CL Cloud</b></p> <ul style="list-style-type: none"> <li>LoRa Wan Gateway</li> </ul>  | <ul style="list-style-type: none"> <li><b>LoRaWan</b> gateway protocol at 868 MHz with external antenna</li> <li>Modem GPRS QUADBAND (SIM included: 500 MB free)</li> <li>WiFi connection/LAN (as alternative to GPRS if available) on request</li> </ul> | 815 |
| <b>Solar Kit for Cloud</b>   | <ul style="list-style-type: none"> <li>Solar Panel 80 W</li> <li>Charger + controller MPPT</li> <li>Battery 20 A/h</li> <li>Box IP67</li> <li>Mounting Brackets</li> <li>Pole</li> </ul>  | 530 |

- LoRa module** for data transmission. Typical range of transmission (1-3km in urban and 0.6 -1km in forest environment. It can reach >10Km in case of clean line of sight. (TT-Cyber Cloud required).
- NB-IoT module** is a low-power wide-area network (LPWAN) radio technology standard developed by 3GPP. Sim card 500 Mbyte of LTE traffic.