

Solution for Agriculture farmB – for extensive crops

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Description of the farmB solution

The final product, farmB package, consists of a complete hardware + software solution. This solution has a clear focus on extensive crops: vineyards, olive trees, fruit trees (apples, pears, cherries, etc.), almond trees, cotton, corn, wheat, bananas, etc.

The farmB solution consists in a closed package, including 3 years software license and the hardware. The following years of software usage would be paid on a yearly basis.

Libelium hardware features

The hardware included in the package consists of a measurement unit, datalogger model [Plug&Sense! Smart Agriculture PRO](#) and 5 sensors for measuring the parameters on the field:

- Temperature, humidity and air pressure
- Weather station WS-3000 with pluviometer, anemometer and vane
- 2 x Soil moisture sensors (4,5m length) for two different depths
- Leaf wetness sensor



Figura 1: Plug&Sense! Smart Agriculture PRO

Main features of the datalogger:

IP Grade	IP65
Dimensions	124 x 142 x 85 mm (without sensors). 800g
Operating temperature	-30 °C to +70 °C
Material	Polycarbonate
Sockets	6 sensor sockets + 2 power sockets
Battery	6,6 A·h rechargeable
Charging options	USB, solar panel (up to 18V) and External Battery Module
Included accessories	Solar panel
Certifications	CE



Features of the software. Farm B Platform

FarmB consists of 8 different modules focused at solving business management challenges and optimized field processes:

farmB.view	Users can immediately get an overview of operations, production flow and crop status, teams and much more real-time or processed data.
farmB.eye	Interoperability with drones based on the visualization of the images obtained by these devices
farmB.sat	Automated generation of vegetation indices (NDVI, SAVI, EVI, etc.) obtained through satellite images. Allows obtaining variable rate fertilization prescription
farmB.clima	Integration of available weather data ranging from open weather data to Libelium sensor devices installed in the field. It includes important features such as <ul style="list-style-type: none"> - Irrigation needs - Indication of optimal moment to apply treatments - Evapotranspiration - Disease prevention
farmB.fleet	Natively export and import ISOXML, CSV and other file formats used by agricultural machinery allows users to monitor running or plan up-coming. Data streams from machinery, crop, soil and other sources are fused into actionable information for cultivation consultants.
farmB.insta	This module enables real-time vital information sharing between on-site and off-site teams
farmB.prox	Complete set of services and applications for collecting, processing and visualizing information. Ranging from soil conductivity scans with proven in the industry sensors, to creating sampling point maps and allowing navigation (back) to the sampling points.
farmB.log	The user's back-office registry, with highly detailed information at plot level. The module provides all necessary information and generates formal CO2 emissions and N-efficiency reports.

