

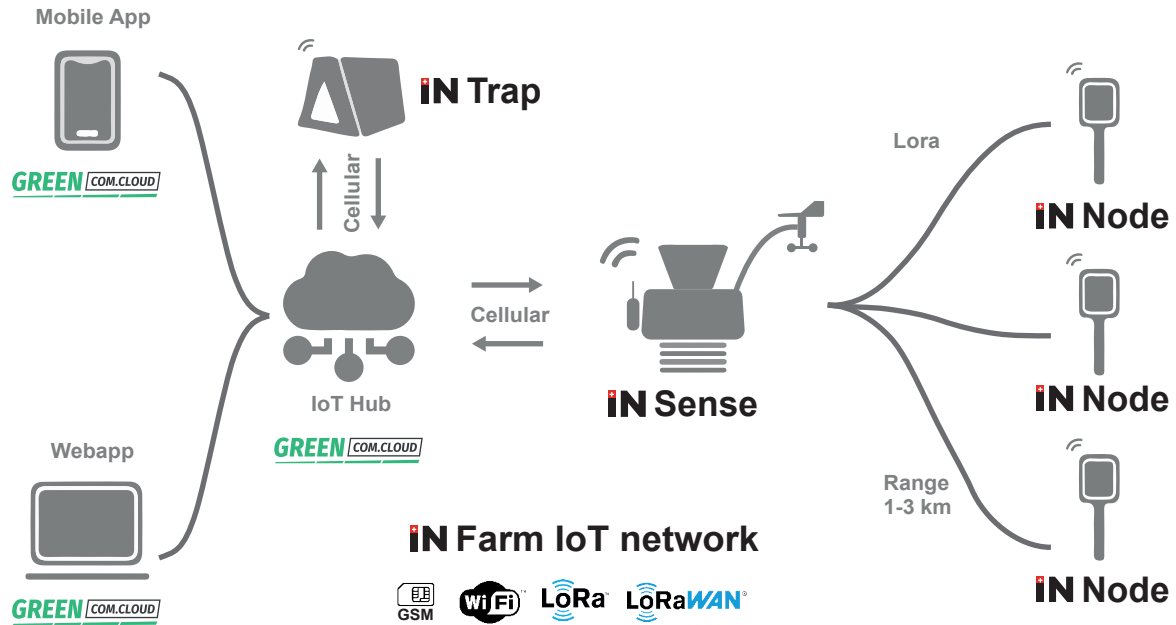
BROCHURE

IOT SENSORS AND SERVICES

STRUCTURE

DESCRIPTION

The IoT devices from Greencom.cloud offer great flexibility. They can connect to the Cloud using 2G, 3G, or 4G networks in more than 100 countries. Additionally, they can create a local LoRa network to aggregate and transmit data from multiple devices through the mobile network. They also support integration with LoRaWAN networks.



<p>Resistant to the most difficult conditions</p>	<p>Self sufficient and minimal maintenance</p>	<p>Long lasting battery backup</p>	<p>Data buffer on device if signal failure occur</p>
<p>Auto-coupling between devices</p>	<p>Geo-localization for mobile devices</p>	<p>Completely integrated into Greencom.cloud</p>	<p>Integration cloud2cloud via API</p>



IN SENSE PRO



FEATURES	
ITEM	DESCRIPTION
1	Weather stations based on Davis VP2 ISS mechanics.
2	Compliance with international standards.
3	Autonomous communication with Greencom.cloud platform.
4	Mobile network connectivity with global reach.
5	Optional LoRaWAN network support.
6	Up to 32 LoRa IN nodes supported.
7	Range of 1 - 3 km for LoRa connections
8	Independent power source via rechargeable battery.
9	Integrated photovoltaic panel for solar charging.
10	Acts as a gateway for additional IoT sensors.
11	Expands data collection via LoRa subnetwork.






COMPATIBLE MODULES



TECHNICAL SPECIFICATIONS		
ITEM	FEATURE	DESCRIPTION
1	SENSOR SYSTEMS	Moisture and ambient temperature, pluviometer, wind velocity and direction Optional: solar radiation, leaf wetness, 8Mp camera
2	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRa, LoRaWAN
3	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou (only mobile)
4	DATA UPDATE	30 minutes, Optional: 15 minutes
5	DATA BUFFER	72 hours
6	BATTERY	3.7V, 3500 mAh (5 weeks of autonomy with no solar recharge)
7	SOLAR PANEL	11.5 x 13.0 cm, 2.5W



OPTIONAL ACCESSORIES

				
MODULAR STEEL POLE	SENSOR LEAF WETNESS	POLE MOUNT	SENSOR SOLAR RADIATION	CAMARA 8MP

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IN SENSE MINI



FEATURES

ITEM	DESCRIPTION
1	Compact weather station utilizing Davis Vantage Vue ISS mechanics.
2	Advanced sensor system technology.
3	Direct communication with Greencom.cloud platform.
4	Global mobile network coverage for seamless connectivity.
5	Optional support for LoRaWAN network.
6	Acts as a gateway for additional IoT sensors.
7	Integration with LoRa subnetwork for data extension.
8	Support for up to 6 LoRa IN Nodes.
9	Adjustable range of 0.5 - 1 km based on conditions.
10	Independent power source via rechargeable battery.
11	Includes a photovoltaic panel for solar charging.

COMPATIBLE MODULES



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	SENSOR SYSTEMS	Moisture and ambient temperature, pluviometer, wind velocity and direction Optional: solar radiation, leaf wetness, 8Mp camera
2	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRa, LoRaWAN
3	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou (only mobile)
4	DATA UPDATE	60 minutes
5	DATA BUFFER	72 hours
6	BATTERY	3.7V, 3500 mAh (5 weeks of autonomy with no solar recharge)
7	SOLAR PANEL	11.2 x 8.4 cm, 1.5W



OPTIONAL ACCESSORIES



MODULAR STEEL POLE



SENSOR LEAF WETNESS



POLE MOUNT



CAMARA 8MP



IN SENSE INDOOR



TECHNICAL SPECIFICATIONS

ITEM	FEARTURE	DESCRIPTION
1	SENSOR SYSTEMS	Moisture, conductivity and soil temperature Moisture and air temperature
2	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRa, LoRaWAN
3	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou (only mobile)
4	DATA UPDATE	30 min (standard), 15 min (option) 3 min (only LoRa option)
6	BATTERY	3.7V, 3500 mAh (5 weeks of autonomy with no solar recharge)
7	SOLAR PANEL	11.2 x 8.4 cm, 1.5W

FEATURES

ITEM	DESCRIPTION
1	Compact indoor weather station designed for greenhouse use.
2	Easy installation for seamless integration into indoor environments.
3	Fully autonomous functionality for data transmission to the Greencom.cloud platform.
4	Measures punctual temperature and moisture data of the air near plants.
5	Monitors soil condition through moisture conductivity and temperature readings.
6	Independent power source using a rechargeable battery.
7	Includes a photovoltaic panel for solar charging.
8	Optional compatibility with a 220V network for additional power source.

COMPATIBLE MODULES



SENSORS



SENSOR ENVIRONMENTAL



SENSOR SOIL MOISTURE



IN SENSE GATEWAY



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	DEGREE OF PROTECTION	IP67
2	MOBILE	Connectivity (2G, 3G, 4G)
3	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou
4	DATA UPDATE	30 min (standard)
5	BATTERY	3.7V, 3500 mAh
6	SOLAR PANEL	11.2 x 8.4 cm, 1.5W
7	MAX IN NODE CONNECTED	16

FEATURES

ITEM	DESCRIPTION
1	IN Sense Gateway serves as an autonomous communication element.
2	Independently collects, aggregates, and transmits data from IN Nodes to the Cloud.
3	Generates a local LoRa network automatically, eliminating the need for configuration.
4	Supports up to 16 LoRa IN Nodes.
5	Offers a range of 0.5-1.5 km depending on environmental conditions.
6	Facilitates seamless connectivity and data transmission without manual intervention.

OPTIONAL



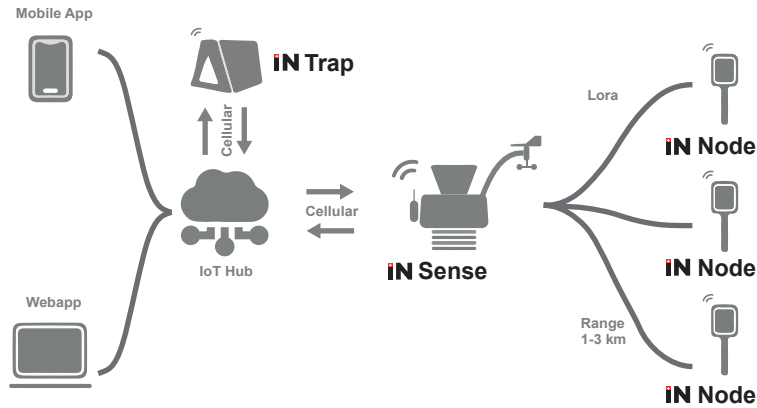
CAMARA 8MP



MODULAR POLE D25/1M



IN NODE



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	DEGREE OF PROTECTION	IP67
2	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRa, LoRaWAN
3	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou (only mobile)
4	DATA UPDATE	30 min (standard), 15 min (option) 3 min (only LoRa option)
5	BATTERY	3.7V, 3500 mAh
6	SOLAR PANEL	11.2 x 8.4 cm, 1.5W

FEATURES

ITEM	DESCRIPTION
1	IN Node is a versatile IoT device designed for data collection.
2	Equipped with various sensor interfaces to gather diverse types of data from the field.
3	Enables data transmission to the Cloud via different methods, including: a. Mobile network, depending on the variant. b. Local LoRa network through an IN Sense gateway. c. LoRaWAN provider.
4	Offers flexibility in data collection and transmission, catering to different connectivity requirements.
5	Offers a range of 0.5-1.5 km depending on environmental conditions.
6	Enables seamless integration with existing infrastructure for efficient data management and analysis.

OPTIONAL



MODULAR POLE D25/1M



IN AIR



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	AIR TEMPERATURE [°C]	-40° C / +80° C (precision: +/-0.3 °C)
2	AIR MOISTURE [%]	Mobile (2G, 3G, 4G), LoRa, LoRaWan
3	LOCALIZATION	0% / 100% (precision +/-2 %)
4	OUTPUT	Digital
5	DIMENSIONS	55 mm x 20 mm

FEATURES

ITEM	DESCRIPTION
1	IN Air sensor measures temperature and air moisture using the SHT31 Sensiron sensor.
2	Designed for indoor use, particularly suitable for monitoring conditions near plants.
3	Offers versatility with power options: a. Solar rechargeable battery. b. Optional 220V network connection for continuous power supply.
4	Ideal for indoor environments such as refrigerators or controlled settings.
5	In the LoRa version, the range is limited to approximately 100-300 meters from the gateway in cold storage installations, depending on conditions.

COMPATIBLE MODULES



COMPATIBLE



IN NODE



IN AIR PRO



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	AIR TEMPERATURE [°C]	-10 ..+ 60°C (precision: +/- 0.8°C)
2	HUMIDITY [%]	0 .. 100% (precision: +/- 6%)
3	PRECISION	±10 µg/m3 @ 0 to 100 µg/m3 ±10 % @ 100 to 1000 µg/m3
4	CARBON DIOXIDE [CO2]	400 .. 5'000 ppm ± (precision: 40 ppm + 5%)
5	OUTPUT	Digital
6	DIMENSIONS	260 mm X 160 mm X 190 mm
7	CABLE LENGHT	1.5 m

FEATURES

ITEM	DESCRIPTION
1	IN Air Pro serves as an environmental quality monitoring station.
2	Equipped with state-of-the-art sensors to measure fine dust and carbon dioxide levels.
3	Also measures air temperature and humidity for comprehensive environmental data.
4	Suitable for various applications: a. Forest fire warning system in remote areas. b. Monitoring changes in air quality resulting from various factors.
5	Provides valuable insights for environmental monitoring and management.

COMPATIBLE MODULES



COMPATIBLE



IN NODE



IN RAD



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	RANGE	0 - 1200 W/m2
2	PRECISION	+/-5% on the whole spectrum
3	COSINE RESPONSE	+/-3% for angles of incident from 0° to 75°
4	TEMPERATURE COEFFICIENT	-0.12% per °C

FEATURES

ITEM	DESCRIPTION
1	Davis solar radiation sensor designed for forecasting and spraying models.
2	Measures global radiation in the range of 0.400 to 1.1 µm and solar energy in W/m2.
3	Provides essential data for: a. Estimating evapotranspiration to determine irrigation volume for crops. b. Estimating the vegetative phase of crops.
4	Optional sensor compatible with the IN Sense PRO weather station.
5	Enables accurate forecasting and management of agricultural activities based on solar radiation data.

COMPATIBLE MODULES



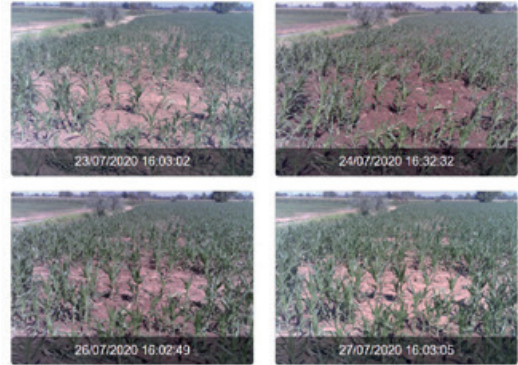
COMPATIBLE



IN SENSE PRO



IN RAD



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	RESOLUTION	8 MP (3280x2464)
2	OPENING	70°
3	DEGREE OF PROTECTION	IP67
4	CABLE LENGTH	1.5 m

FEATURES

ITEM	DESCRIPTION
1	IN Cam is a camera designed for remote monitoring applications.
2	Captures one or more pictures automatically per day.
3	Sends images directly to the Greencom.cloud platform for storage and analysis. b. Estimating the vegetative phase of crops.
4	Compatible as an accessory for IN Sense weather stations or can be connected to an IN Sense gateway.
5	Common applications include: a. Remote monitoring of fields. b. Daily monitoring of phenological phases. c. Comparison of field conditions with previous seasons.
5	Enhances agricultural management by providing visual insights into field conditions and crop development.

COMPATIBLE MODULES



IN SENSE GATEWAY

COMPATIBLE



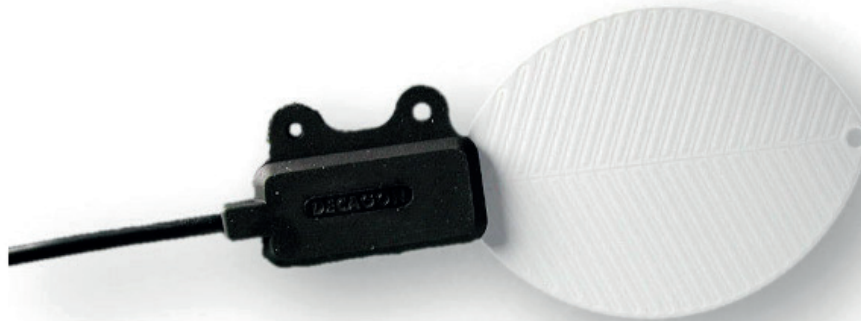
IN SENSE PRO



IN SENSE MINI



IN LEAF



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	MEASUREMENT TIME	10 ms
2	TYPE OF MEASUREMENT	Frequency domain
3	ANALOG	Output 300 - 1250 Mv
4	DIMENSIONS	112 mm x 58 mm x 7.5 mm
5	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	The IN Leaf sensor, based on Meter's Phytos 31 technology, accurately measures leaf moisture.
2	Provides data on both the onset and duration of moisture on simulated leaves.
3	Critical for predicting the onset of diseases or infections in plants.
4	Extremely accurate and reliable tool for agricultural monitoring.
5	Easy to install and use, offering a straightforward solution to various agricultural challenges.
5	Enhances plant health management by providing timely information on moisture levels and disease risk.

COMPATIBLE MODULES



IN SENSE GATEWAY

COMPATIBLE



IN SENSE PRO



IN SENSE MINI



IN NODE SOIL



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	TEMPERATURE [°C]	-40° C / +65° C (precision +/- 0.5° C)
2	MOISTURE [%]	0 - 50% (precision +/-5%)
3	OUTPUT	Analog 0 - 3300 Mv
4	DIMENSIONS	170 mm x 25 mm x 15 mm
5	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	IN Node Soil sensor operates at 75MHz for monitoring soil temperature and moisture.
2	Provides valuable data for monitoring plant stress, such as asphyxia and aridity, and for optimizing sowing and fertilization
3	Low susceptibility to soil salinity ensures accurate readings in various soil conditions.
4	Minimal impact from soil temperature variations, ensuring consistent performance.
5	Supports installation of up to two sensors on a single IN Node, enabling monitoring at different soil depths.
6	Suitable for arboreal installations, semi-permanent, or permanent setups, as well as for use in arable land applications.
7	Enhances agricultural management practices by providing essential soil data for optimal plant growth and productivity.

COMPATIBLE MODULES



COMPATIBLE



IN NODE



IN NODE SOIL PRO



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	MOISTURE [VWC]	0 - 64% (precision +/-3%)
2	OUTPUT	Analog 1000 - 2500 Mv
3	DIMENSIONS	51 mm x 24 mm x 75 mm
4	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	IN Node Soil PRO sensor operates at 70MHz for highly precise soil moisture detection.
2	Provides accurate assessment of soil water status, crucial for optimizing irrigation practices and ensuring optimal plant health.
3	Supports installation of up to two sensors on a single IN Node, enabling monitoring at different soil depths for comprehensive
4	Suitable for various agricultural applications, including arboreal installations, semi-permanent, or permanent setups, as well as
5	Enhances agricultural management by facilitating informed decisions regarding irrigation scheduling and water management
6	Robust and reliable design ensures long-term performance and durability in harsh environmental conditions.
7	Contributes to resource efficiency and sustainability by minimizing water waste and maximizing crop yield potential.

COMPATIBLE MODULES



COMPATIBLE



IN NODE



IN NODE ELECTRO



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	ELECTRIC CONDUCTIVITY [Ds/m]	0 - 20 dS/m (precision +/-5%)
2	TEMPERATURE [°C]	-40° C / +65° C (precision +/- 0.3° C)
3	MOISTURE [%]	0 - 70% (precision +/-3%)
4	OUTPUT	Digital
5	DIMENSIONS	94 mm x 24 mm x 75 mm
6	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	IN Node Electro utilizes Meter's Teros12 sensor to measure temperature, moisture, and electrical conductivity of the soil.
2	Capable of operating effectively in challenging environments, providing reliable data even in adverse conditions.
3	Robust epoxy body ensures durability, with a lifespan exceeding 10 years in field use.
4	Ferrite core eliminates cable noise, ensuring stable and accurate measurements for enhanced data reliability.
5	Ferrite core eliminates cable noise for accurate measurements.
6	Supports dual-sensor installation for depth monitoring.
7	Particularly useful in greenhouse environments for accurate fertigation monitoring.

COMPATIBLE MODULES



COMPATIBLE



IN NODE

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IN NODE HYDRO



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	WATER POTENTIAL	9 - 2000 kPa (precision +/-10%)
2	TEMPERATURE [°C]	-40°C / +65° C (precision +/-1° C)
4	OUTPUT	Digital
5	DIMENSIONS	96 mm x 35 mm x 15 mm
6	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	Utilizes Meter's Teros 21 sensor for easy water potential measurement.
2	Requires no maintenance and offers accuracy for various applications.
3	Provides comprehensive soil moisture information beyond water content alone.
4	Determines water availability to plants and water movement in the soil.
5	Offers direct comparison of moisture levels between different sites.
6	Supports dual-sensor installation for monitoring soil at different depths.

COMPATIBLE MODULES



COMPATIBLE



IN NODE



IN NODE MULTILEVEL



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	ELECTRIC CONDUCTIVITY [Ds/m]	0 - 20 dS/m (precision +/-5%)
2	TEMPERATURE [°C]	-40° C / +65° C (precision +/-0.3° C)
3	MOISTURE [%]	0 - 100% (precision +/-2%)
4	OUTPUT	Digital
5	DIMENSIONS	10, 30, 60, 90 cm
6	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	Specialized capacitive sensor based on Sentek Drill & Drop technology.
2	Monitors soil profile effectively for precise spraying interventions.
3	Measures soil moisture, temperature, and electrical conductivity (in Triscan version) every 10 cm of depth.
4	Available in four lengths: 10 cm, 30 cm, 60 cm, 90 cm with sensors at each 10 cm increment.
5	Two versions: standard (moisture and temperature) and Triscan (moisture, temperature, and electrical conductivity).

COMPATIBLE MODULES



COMPATIBLE



IN NODE



IN PROBE



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	ELECTRIC CONDUCTIVITY [Ds/m]	0 - 20 dS/m (precision +/-8%)
2	TEMPERATURE [°C]	-40°C / +80°C (precision +/-1°C)
3	SOIL MOISTURE [VWC]	1 - 100% (precision +/-3%)
4	OUTPUT	Digital
5	DIMENSIONS	160 mm x 100 mm x 50 mm
6	CABLE LENGHT	5 m

FEATURES

ITEM	DESCRIPTION
1	Portable sensor for precise and quick measurement of moisture, conductivity, and soil temperature.
2	Geolocated measurements provided with GNSS functionality.
3	Data transmitted automatically to the Greencom.cloud platform via integrated mobile module.

COMPATIBLE MODULES



OPTIONAL



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VERTICAL FARMING



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	AIR SPEED [m/s]	0 .. 2 m/s (precision: +/- 0.05 m/s)
2	CARBON DIOXIDE (CO2)	400 .. 5'000 ppm ± (precision: 40 ppm + 5%)
3	OUTPUT	Digital
4	DIMENSIONS	200 mm x 30 mm x 30 mm
5	CABLE LENGHT	1.5 m

FEATURES

ITEM	DESCRIPTION
1	Continuous monitoring of all parameters is essential.
2	Data plays a central role, requiring analysis and optimization to enhance product quality.
3	Emphasis on data-driven decision-making to improve overall outcomes.

COMPATIBLE MODULES



COMPATIBLE



IN NODE

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IN TRAP DELTA



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	RESOLUTION	8 Mpx
2	FOV	65°
3	DIMENSIONS	220 mm X 160 mm X 210 mm
4	CONNECTIVITY	Mobile (2G, 3G, 4G)
5	LOCALIZATION	A-GPS, GPS, GLONASS
6	UPDATING DATA	Up to 3 photos per day
7	BATTERY	3.7V, 3500 mAh
8	SOLAR PANEL	11.2 x 8.4 cm, 1.5W

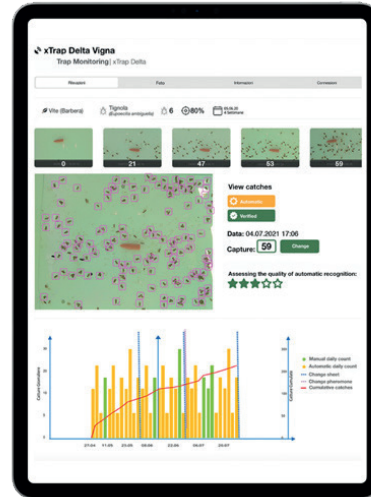
FEATURES

ITEM	DESCRIPTION
1	Utilizes high-definition cameras and advanced image recognition algorithms.
2	Various trap types for monitoring diverse species.
3	Lightweight and portable, enabling flexible placement.
4	Autonomous operation with solar panel-recharged batteries.
5	High-resolution images transmitted via cellular network to Greencom.cloud platform.
6	Images analyzed automatically using Artificial Intelligence.
7	Stored for future analysis.
8	Viewable on smartphone, tablet, or PC.
9	Data includes daily catches and cumulative totals for population growth tracking.

COMPATIBLE MODULES



IN TRAP DELTA PLUS



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	RESOLUTION	8 Mpx
2	FOV	65°
3	DIMENSIONS	220 mm X 160 mm X 210 mm
4	CONNECTIVITY	Mobile (2G, 3G, 4G)
5	LOCALIZATION	A-GPS, GPS, GLONASS
6	UPDATING DATA	Up to 3 photos per day
7	BATTERY	3.7V, 3500 mAh
8	SOLAR PANEL	11.2 x 8.4 cm, 1.5W

FEATURES

ITEM	DESCRIPTION
1	Utilizes high-definition cameras and advanced image recognition algorithms.
2	Various trap types for monitoring diverse species.
3	Lightweight and portable, enabling flexible placement.
4	Autonomous operation with solar panel-recharged batteries.
5	High-resolution images transmitted via cellular network to Greencom.cloud platform.
6	Special accessory enables monitoring of air temperature and humidity.
7	Stored for future analysis.
8	Sophisticated predictive models for insect generation and peak flight prediction.

COMPATIBLE MODULES



IN COMBINATION



IN AIR PRO



IN TRAP COLOR



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	RESOLUTION	8 Mpx
2	FOV	65°
3	DIMENSIONS	240 mm X 200 mm X 230 mm
4	CONNECTIVITY	Mobile (2G, 3G, 4G)
5	LOCALIZATION	A-GPS, GPS, GLONASS
6	UPDATING DATA	Up to 3 photos per day
7	BATTERY	3.7V, 3500 mAh
8	SOLAR PANEL	11.2 x 8.4 cm, 1.5W

FEATURES

ITEM	DESCRIPTION
1	Utilizes high-definition cameras and advanced image recognition algorithms.
2	Various trap types for monitoring diverse species.
3	Lightweight and portable, enabling flexible placement.
4	Autonomous operation with solar panel-recharged batteries.
5	High-resolution images transmitted via cellular network to Greencom.cloud platform.
6	Attracts catches using color foil and immobilizes them.
7	Non-selective, suitable for broad-spectrum monitoring of various insect types.
8	Yellow, blue, and white color sheets available for enhanced efficacy.

COMPATIBLE MODULES



IN TRAP STINK



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	RESOLUTION	8 Mpx
2	FOV	65°
3	DIMENSIONS	280 mm X 140 mm X 140 mm
4	CONNECTIVITY	Mobile (2G, 3G, 4G)
5	LOCALIZATION	A-GPS, GPS, GLONASS
6	UPDATING DATA	Up to 3 photos per day
7	BATTERY	3.7V, 3500 mAh
8	SOLAR PANEL	11.2 x 8.4 cm, 1.5W

FEATURES

ITEM	DESCRIPTION
1	Utilizes high-definition cameras and advanced image recognition algorithms.
2	Specifically designed for trapping bugs.
3	Lightweight and portable, enabling flexible placement.
4	Autonomous operation with solar panel-recharged batteries.
5	Utilizes an entry control system to independently count incoming bugs.
6	Reduces monitoring time and simplifies emptying operations.
7	Non-selective, suitable for broad-spectrum monitoring of various insect types.
8	Ensures high detection reliability by preventing insects from escaping during counting.

COMPATIBLE MODULES



IN CANLIVE



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	CONNECTIVITY	2G, 3G/UMTS and WiFi
2	GEOLOCALIZATION	GPS/GLONASS/QZSS (precision 2.5 m)
3	PROTECTION	IP65
4	SUPPLY	9V - 36V
5	DIMENSIONS	14.0 x 11.8 x 5.1 cm

FEATURES

ITEM	DESCRIPTION
1	Data logger compatible with the CANbus diagnostic socket on most recent machinery.
2	Compatible with all major tractor brands.
3	Interconnects and integrates machinery data into Greencom.cloud platform.
4	Records parameters including speed, vehicle position, history of movements, processing area and time, consumption, and more.
5	Additional features available on vehicles with CANbus door or with WED sensors and Smart Card option.

OPTIONAL



WED

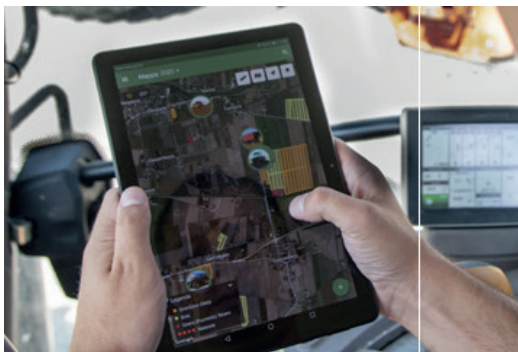
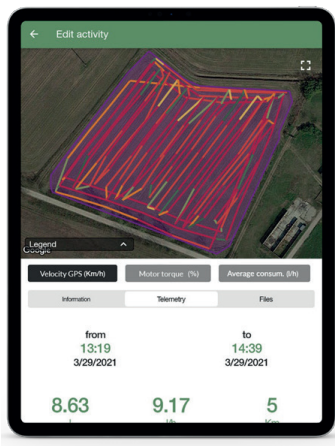


SMART CARD

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SMART METER



FEATURES

ITEM	DESCRIPTION
1	Works with most recent machinery equipped with a CANbus diagnostic socket.
2	Records and stores parameters from the vehicle's control unit.
3	Allows integration of machinery data into the Greencom.cloud platform.
4	Can be used with WED sensors and Smart Card option for additional functionalities.
5	Available in fixed 220V version for stationary tanks and 14-24V version for mobile tanks.
6	Automates tracking and monitoring processes, reducing manual efforts.
7	Provides accurate and reliable data for fuel consumption and equipment usage.

OPTIONAL



SMART CARD



IN SILO



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	SILO LEVEL [m]	0 - 20 m (precision +/-0.2 m)
2	AIR TEMPERATURE [°C]	-40° C / +80° C
3	AIR MOISTURE [%]	0% / 100% (precision +/-2%)
4	DEGREE OF PROTECTION	IP67
5	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRaWAN
6	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou
7	DATA UPDATE	30 min
8	BATTERY	3.7V, 3500 mAh
9	SOLAR PANEL	11.2 x 8.4 cm, 1.5W
10	DIMENSIONS	180 mm x 120 mm x 80 mm

FEATURES

ITEM	DESCRIPTION
1	Tracks and monitors the filling status of silos.
2	Works with both metal and synthetic silos.
3	Independently sends filling status data to the Greencom.cloud platform.
4	Supports both mobile and LoRaWAN connectivity for data transmission.
5	Provides a simple and automated solution for silo filling status management.

COMPATIBLE MODULES



IN GRAIN



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	LEVEL [m]	0 - 20 m (precision +/-0.2 m)
2	GRID TEMPERATURE [°C]	-10°C / +85°C
3	TEMPERATURE SENSORS	4 at a distance of 70cm
4	DEGREE OF PROTECTION	IP67
5	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRaWAN
6	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou
7	DATA UPDATE	30 min
8	BATTERY	3.7V, 3500 mAh
9	SOLAR PANEL	11.2 x 8.4 cm, 1.5W
10	DIMENSIONS	180 mm x 120 mm x 80 mm

FEATURES

ITEM	DESCRIPTION
1	Monitors parameters essential for grain storage management.
2	Records temperature and humidity levels within grain storage.
3	Helps prevent mold growth, insect infestation, and chemical reactions.
4	Provides real-time data on grain storage conditions for timely intervention.
5	Utilizes a lance for insertion into grain piles to capture accurate readings.

COMPATIBLE MODULES



IN WATER



TECHNICAL SPECIFICATIONS

ITEM	FEATURE	DESCRIPTION
1	WATER LEVEL [mm]	1 - 1500 mm (precision +/-10 mm)
2	WATER TEMPERATURE [°C]	-40°C / +60°C
3	DEGREE OF PROTECTION	IP67
4	CONNECTIVITY	Mobile (2G, 3G, 4G), LoRaWAN
5	LOCALIZATION	A-GPS, GPS, GLONASS, BeiDou
6	DATA UPDATE	30 min
7	BATTERY	3.7V, 3500 mAh
8	SOLAR PANEL	11.2 x 8.4 cm, 1.5W
9	DIMENSIONS	10 cm x 10 cm x 160 cm

FEATURES

ITEM	DESCRIPTION
1	Measures water level in rice fields, tributaries, and ditches from 0 to 1.5 meters.
2	Monitors water temperature to detect temperature increases.
3	Functions independently without constant human intervention.
4	Possesses a pending international patent for its innovative design.
5	Generates alerts for exceeding minimum or maximum water level thresholds and temperature increases.
6	Fully integrates with the Greencom.cloud platform for seamless data transmission and management.

COMPATIBLE MODULES

