



Member of the  **Plasson**® Group

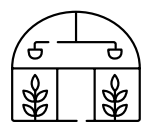
Agriculture Catalog



Open Field and Greenhouses
Irrigation and fertigation control





















Agriculture



Greenhouses

Index

Controllers

	GALILEO CLOUD Open field	The most advanced Cloud-Based controller for Agriculture open field	 	page 9
	GSI PRO	Irrigation and advanced fertigation control cloud base for maximum accessibility from web and mobile app.	 	page 11
	GSI AG	Irrigation and fertigation control cloud base for maximum accessibility from web and mobile app.	 	page 13
	80024 Series	Modular controller for variable irrigation and fertigation zones with an auxiliary program for lighting and additional independent electric activation	 	page 15
	8000 Series Outdoor	Allows independent programming of each valve, ideal for lawns, drip systems and sprinkler systems and basic agriculture, Operates 4, 6, 9 or 12 valves	 	page 16
	6200 Series	Timer-based irrigation controller, battery powered, 6-12 valves	 	page 17

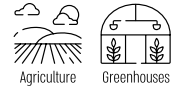
Index

Fertigation Systems



FERTIJET Series

A fertilizer system with direct injection using the Bypass or Inline method, enabling full control of the EC/pH levels, operated through a Galileo controller or GSI PRO in accordance with the crop needs and the farmer's requirements



page 21



FERTIMIX Series

Mixer-based fertilizer system with open tank for maximum precision, which includes EC/pH control, mixing tank enabling full control of the fertilizer mixture, providing pressure to the irrigation system by means of the water pump installed in the Fertimix machine, operated by the Galileo controller

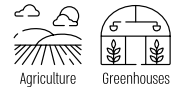


page 23



GSF Series

Smart fertilizer system with one or two channels



page 25

Index

Sensors, Meters & Accessories



Sentek DRILL & DROP

Advanced monitoring system for real-time soil moisture profile management



page 28



CO2 Sensor

A system that includes a precise sensor for sampling, analysis and control of the CO2 level in greenhouses or hydroponics structures



page 31



3050 EC/pH sensor

EC and pH sampling and monitoring system for correction of fertilization in the fertilizer machine based on monitoring of mineral solvents, acidity and water bases



page 32



Temperature and humidity measuring

Monitoring unit for transmitting real-time temperature and humidity data to Galileo for optimal adjustment of irrigation programs to to climate conditions.



page 33



Real-time weather station

Monitoring unit for transmitting real-time weather data to Galileo for optimal adjustment of irrigation programs to climate. Allows energy savings in the greenhouse and preservation of the structure



page 34



Accessories



Remote Terminal Units

Radio based units



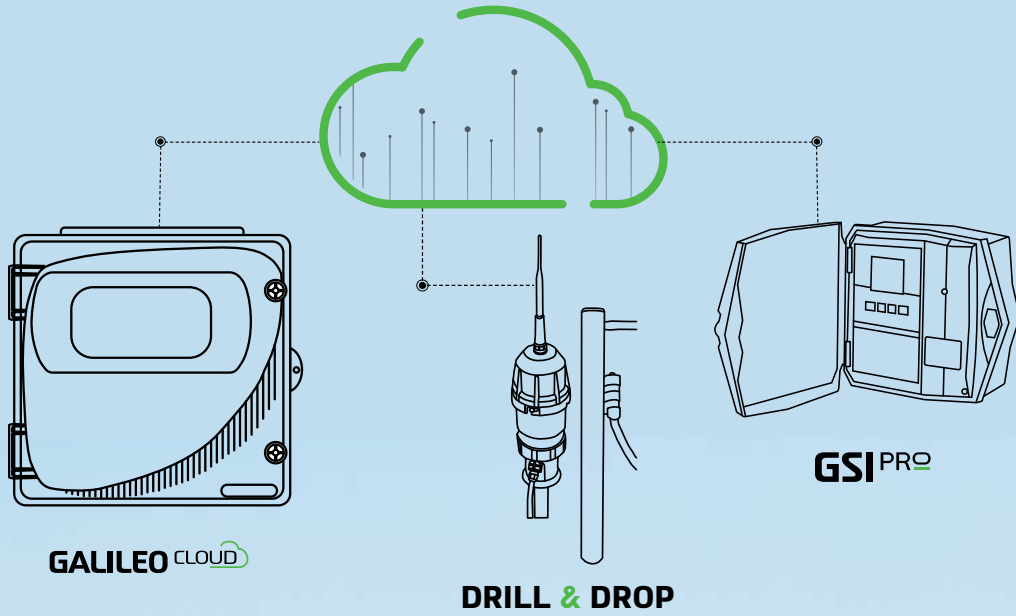
page 35



Member of the **PLASSON** Group

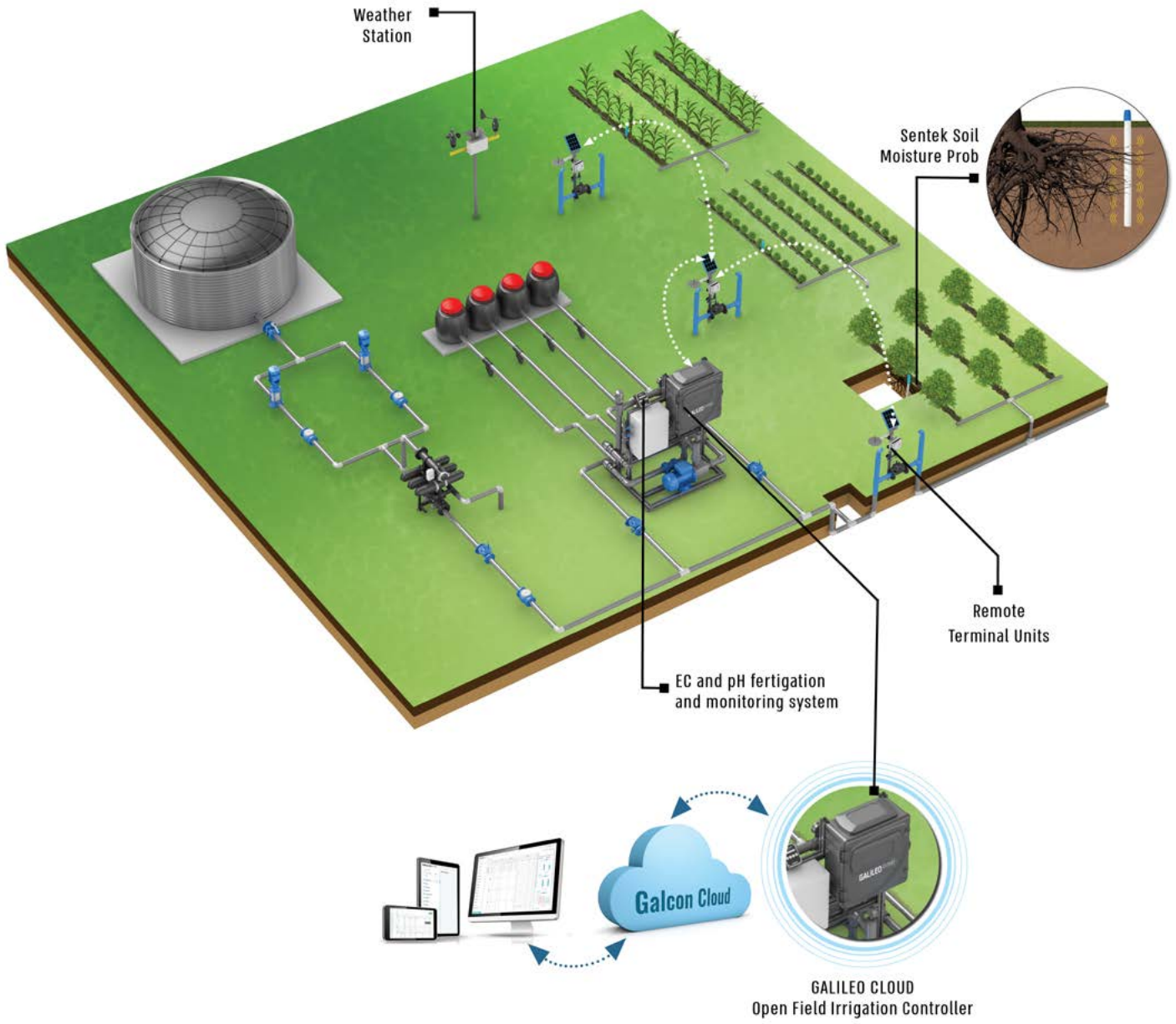


Irrigation control that makes sense



Irrigation Controllers





GALILEO CLOUD open field

The most advanced Cloud-Based controller for Agriculture



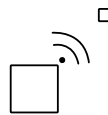
Advantages:



Management & control of irrigation and fertilization



Operation of fertilizing machines with EC/pH control



Operation of remote terminal units - radio or wireline



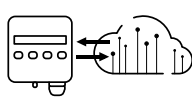
App control



Flexibility - ideal for a range of applications



Full Integration with Sentek probes



API with 3rd Party Integration Systems



Water-Mixing-Junction controlling per required EC

Features:

- The app allows you to control up to 50 main irrigation lines, and thus create a hierarchical network
- Gradually open/close irrigation capacity to prevent high pressure buildup
- Limiting the flow rate to the piping in case of bottleneck. After programming the limiting flow rate, the system prevents the actual flow rate from automatically exceeding the limit
- 200 irrigation devices that collect data related to water/time and up to 8 different fertilizers
- 100 water meters that distribute the amount and flow rate of water measured by the water meter between the active valves. This unique capability allows the use of a single water meter for many valves, while simultaneously operating each valve individually
- Up to 40 local fertilizer pumps use a simple action program that is part of the irrigation program
- Up to 8 fertilizer centers allow up to 8 fertilizer pumps to be operated, with EC/pH control
- Five pump housings thanks to a special program. This allows easy operation of a combination of up to 5 water pumps and up to a total of 20 water pumps
- Up to 20 virtual water meters by displaying the total flow rate and accumulation of water meters. Each virtual water meter can also display the flow rate balance at a certain point, allowing the use of the element called Burst Control (Net Protection)
- Up to 20 input conditions for starting, delaying or ending irrigation. If an element contains a condition input and/or a sensor (for example, a pressure transducer), it can suspend the hinge pipe to which it is connected
- Up to 4 mixing nodes for controlling the mixture of the water dilution. For example, if the result of mixing drainage or salt water with fresh water complies with the required EC
- Up to 200 irrigation programs with up to 50 valves per program
- API Compatible to Sentek Probes

Technical Characteristics:

AC model - W, WEX, WEXX models

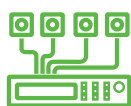
- I/O Cards: 24 outputs, 16 analog, 8/16 digital inputs/outputs
- 220V/50Hz or 110V/60Hz
- 24VAC outputs, 4-20mA or 0-10V analog inputs
- Activation of remote terminal units (RTU)

DC model - W Model

- I/O Cards: 8 digital inputs / 8 digital outputs
- 12V DC power supply for operation of DC Latch solenoids
- Activation of remote terminal units (RTU)
- Optinal - Connection to solar panel and rechargeable battery



Sensors and Accessories



A variety of analog and digital sensors



Water and fertilizer meters



Tensiometers, soil humidity sensors, weather stations



EC/pH sensors



Radio terminal units



Operating fertilizer machines

Models:

Galileo W Controller (AC/DC)

Description	Modular controller in a small case
Control	Control of pump housings, filters, fertilizers, valves
Suitable for application	Agriculture
Ports	4 input/output cards



Galileo WEX Controller

Control	Control of pump housings, filters, fertilizers, valves
Suitable for application	Agriculture
Ports	4 brackets for input/output cards and 4 brackets for protection cards



Galileo WEXX Controller

Control	Control of pump housings, filters, fertilizers, valves
Suitable for application	Agriculture
Ports	8 input/output card holders, 4 protection card holders, additional small case for full protection

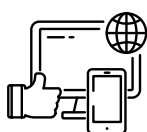


GSI PRO

Irrigation and advanced fertigation control cloud base for maximum accessibility from web and mobile app.



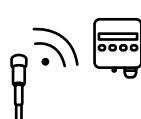
Advantages:



Management & control of irrigation and fertilization



Friendly web interface



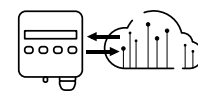
Full Integration with Sentek probes



App control



management of fertilization system with EC/pH



API with 3rd Party Integration Systems

Features:

- Control of up to 24 valves + Master
- Accurate fertilizing, proportional or quantitative with EC/pH
- Automatic filters flushing programs
- One way Remote Terminal Units
- Multiple users at different permission levels
- 8 Irrigation programs (series) with no limit to the number of starts per day
- Compatibility with a wide range of AC or DC solenoids
- Firmware Over The Air (FOTA) Firmware updates
- Detailed set of reports: Irrigation logs, water consumption
- An array of real-time email alerts and / or push notifications from the app
- Real time over/under flow alert
- Irrigation by quantity or time
- Weather based irrigation option
- Units location on Google Map
- Indoor and Outdoor installation
- API Compatible to Sentek Probes
- Management of 2 fertilization systems with EC/pH
- API with 3rd Party Integration Systems
- Full Integration with Sentek probes

Technical Characteristics:

- DC Controller - operated by Lithium batteries or Solar panel.
- AC Controller - 220V/50Hz or 110V/60Hz
- Internal antenna
- Local LCD panel for basic operations and information

Sensors and Accessories



Water meter



Rain sensor



Pressure gauge



Temperature gauge



Tensiometer



EC/pH control

Models:

GSI-PRO AC - 220V/50Hz or 110V/60Hz

Description	Smart, Web-based irrigation controller over cellular
Control over	Control of up to 24 valves + Master
Suitable for application	Open field, Greenhouse



GSI-PRO DC - Lithium batteries

Description	Electrically powered controller
Control over	Control of up to 24 valves + Master
Suitable for application	Open field, Greenhouse



GSI-PRO DC - Solar panel with rechargeable batteries

Description	Operated by solar panel with rechargeable batteries
Control over	Control of up to 24 valves + Master
Suitable for application	Open field, Greenhouse

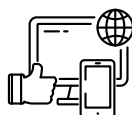


GSI AG

Irrigation and fertigation control cloud base for maximum accessibility from web and mobile app.



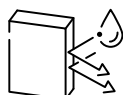
Advantages:



Application-driven control - smart phone and computer



User-friendly web interface



Outdoor waterproof enclosure



Application-driven control



Log-in from any computer without the need for software installation



New, advanced graphic interface

Features:

- Controls up to 24 valves + master valve
- Proportional/precision quantity fertigation
- Automatic filtering operating program
- Connection to terminal units via one-way radio
- Multiple users with authorization hierarchy
- 8 irrigation programs (series), unlimited starts per day
- Compatible with existing valves
- Remote software updates via the cellular network - Over The Air (OTA)
- Detailed reporting: irrigation logs, water consumption
- Real-time alarms to email and/or push messages from the application
- Adjustment of irrigation regime in percentages
- Quantity-based or time-based irrigation
- Weather-based irrigation
- Controllers displayed on a map
- Option to shut off irrigation
- For indoor and outdoor installation
- API Compatible with Sentek probes

Sensors and Accessories



Water meter



Connection to fertilizer pump



Rain sensor

Models:

GSI AG AC - 24 VAC 50/60 Hz

Description	Smart, Web-based irrigation controller over cellular
Control over	Control of up to 24 valves + Master
Suitable for application	Open field, Greenhouse



GSI AG DC - Lithium batteries

Description	Electrically powered controller
Control over	Control of up to 24 valves + Master
Suitable for application	Open field, Greenhouse



GSI AG DC - Solar panel with rechargeable batteries

Description	Operated by solar panel with rechargeable batteries
Control over	Control of up to 24 valves + Master
Suitable for application	Open field, Greenhouse

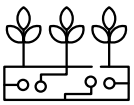


80024 Series

Modular controller for variable irrigation and fertigation zones with an auxiliary program for lighting and additional independent electric activation



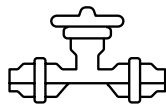
Advantages:



Activates 8-24 valves



Time-based fertigation program



Irrigation programs separately by series / valve



Auxiliary program for lighting or for other independent electric activation



Suitable for a wide variety of applications: home gardening, public gardening and agriculture

Features:

- Irrigation programs separately by series A, B, C
- Weekly program: day-based irrigation
- Cyclic program: irrigation frequency of once per day to once per month
- Time-based fertigation
- Auxiliary program for lighting or for other independent electric activation
- Irrigation duration: from one minute to 9 hours
- Delay function - from one day to 240 days
- Seasonal adaptation of the irrigation duration in percentages
- Electrically powered

Sensors and Accessories:



Rain sensor



Temperature and/or humidity connection

Models:

80024 Controller

Description	Modular irrigation and fertigation controller
Controls	8-24 valves
Suitable for implementation	In home gardening, public gardening, open fields, greenhouses

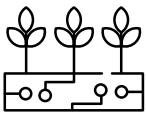


8000 Series - Outdoor

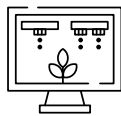
Allows independent programming of each valve, ideal for lawns, drip systems and sprinkler systems and basic agriculture, Operates 4, 6, 9 or 12 valves



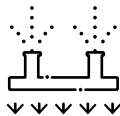
Advantages:



Controller operates 6, 9 or 12 valves



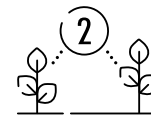
Each valve separately programmable



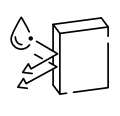
Ideal for sprinklers and drip-irrigation



Seconds-based irrigation - S8000 model



Concurrent irrigation from 2 valves



Outdoor waterproof enclosure

Features:

- Intensive irrigation with multiple cycles per day (8000S model)
- Seconds-based irrigation and in minute intervals (8000S model)
- Control for situations requiring a large number of activations per day (8000S model)
- 24VAC electrically powered
- Suitable for a broad range of valves and solenoids
- Suitable for misting in greenhouses
- Suitable for cooling poultry coops and cow sheds
- Connection to a Normally Closed (NC) rain sensor

Sensors and Accessories:



Rain sensor



Temperature and/or humidity connection

Models:

Series 8000 Controller for Outdoor Installation (4, 6, 9, 12 valves)

Description	Grid electricity-powered controller
Controls	AC6- up to 6 valves, AC9- up to 9 valves, AC12- up to 12 valves
Suitable for implementation	Misting in greenhouses, for cooling chicken coops and cow sheds, basic agriculture, multiple activations
Optional	Seconds-based irrigation and minutes-long cycles (S model)
Standards	CE EMC, CE Safety

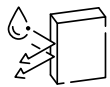


6200 Series

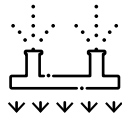
Timer-based irrigation controller, battery powered, 6-12 valves



Advantages:



Waterproof, suitable for outdoor installation or inside irrigation cabinets



Ideal for sprinklers and drip-irrigation



Time-based irrigation



Irrigation duration in seconds and minutes-long cycles (S model)*



Smart phone control*



Time-based fertigation (F11 model)*

Features:

- Ideal for sprinkler and drip irrigation systems in home gardens, flowerbeds, roof gardens and flower pots
- Suitable for time-based irrigation of small farming plots in areas without electricity
- Optional - Seconds-based irrigation and minutes-long cycles (S model)
- IP 54
- Time-based fertigation (F11 model)
- Suitable for two-wire or three-wire solenoids
- Powered by a 9V battery



Models:

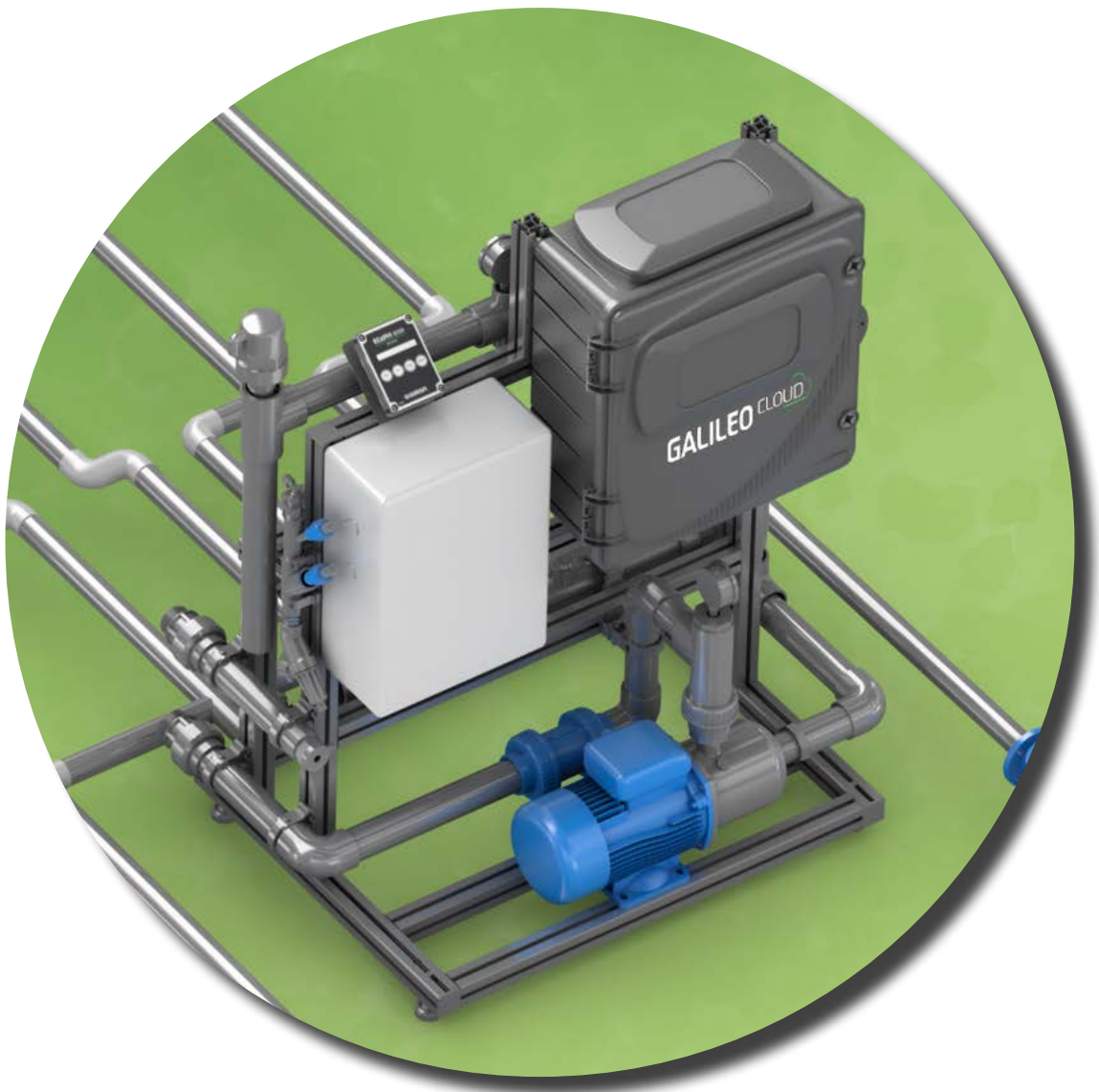
6200- DC 6/9/12

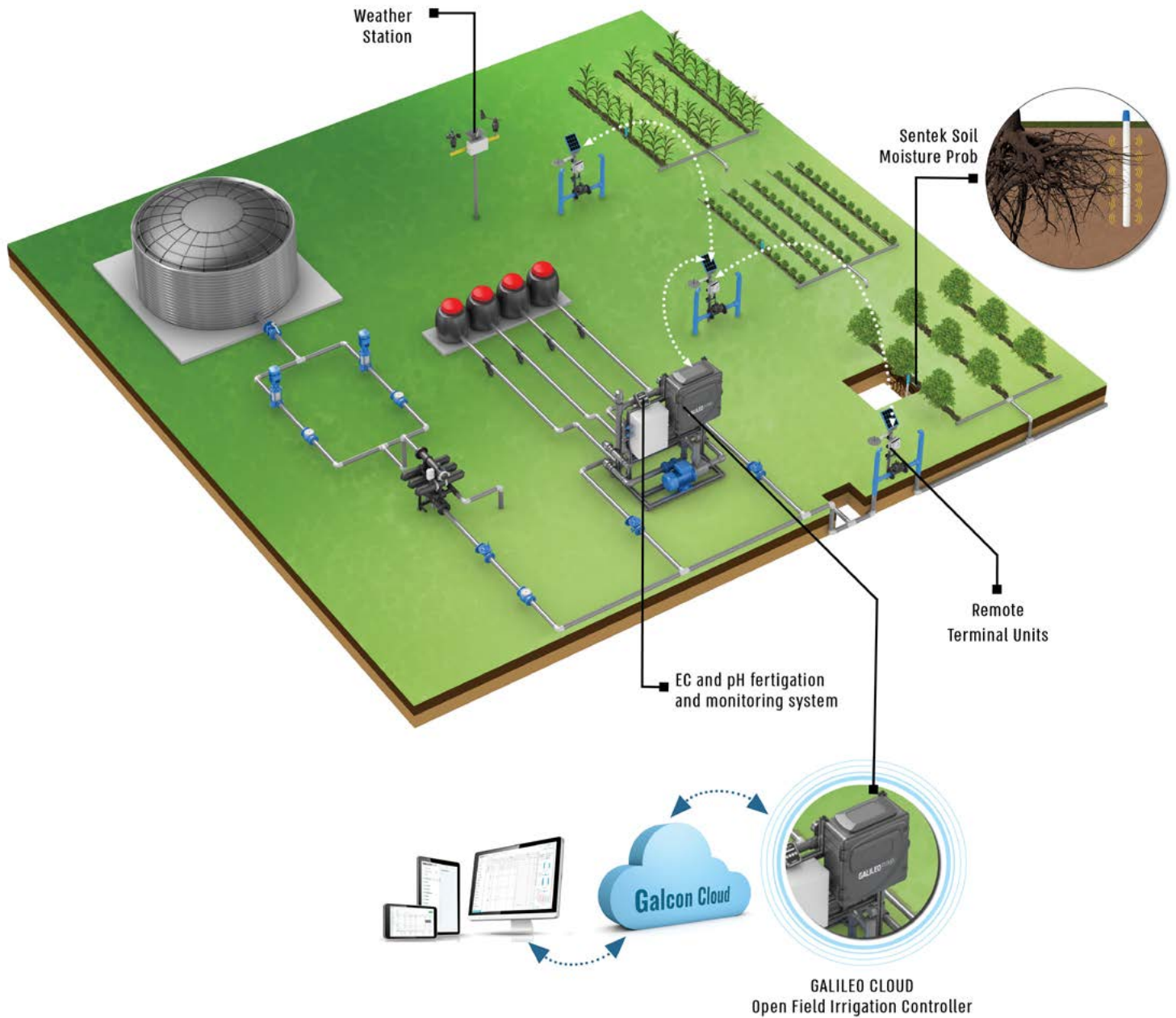
Description	Timer-based irrigation controller, battery powered
Controls	DC6- up to 6 valves, DC9- up to 9 valves, DC12 up to 12 valves
Suitable for implementation	Private gardening, public gardening and basic agriculture in locations without an electricity connection
Optional	Seconds-based irrigation and minutes-long cycles (S model)

6200- DC 11F

Description	Timer-based irrigation controller, battery powered + time-based fertilization
Controls	11 valves + fertilizer pump
Suitable for implementation	Private gardening, public gardening and basic agriculture in locations without an electricity connection
Optional	Seconds-based irrigation and minutes-long cycles (S model)

Fertigation Systems





FERTIJET Series

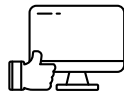
A fertilizer system with direct injection using the Bypass or Inline method, enabling full control of the EC/pH levels, operated through a Galileo controller or GSI PRO in accordance with the crop needs and the farmer's requirements. Optimal now with a unique model with analog (continuous) method that supplies super stable, precise and uniform EC/pH according to farm needs



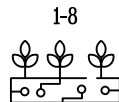
Advantages:



Management, control over irrigation and fertigation for agricultural applications\



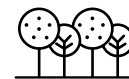
Management and control via a Galileo and GSI PRO controller



Selection of between 1-8 fertilizer channels in accordance with the farmer's needs



Selection of the fertilizer channels' flow rate according to the irrigation system and the crop's requirements



Simple, reliable fertilization system in accordance with the agronomic requirements



The Bypass method enables installation on existing and new systems

Features:

- The system is available with 1-8 fertilizer channels, concurrent, fully synchronized operation
- Proportional fertigation or according to the EC/pH control
- For automatic control of the irrigation, fertigation and filter washing
- Fertilizer flow rate of: 50 l/h, 150 l/h, 500 l/h, 1000 l/h, Concentrated ACID, Regulated Analog Channel from 100 - 1000 l/h
- The Fertijet is mounted on an aluminum frame. It includes Venturi injectors, flow meters, booster pump, fertilizer valves, backflow preventers, pressure gauge, fertilizer meters and other accessories
- Unique model supplied with analog valve on each doing channel allowing continuous

Technical Features

- AC controller - powered from the electricity grid
- Can be ordered with a Galileo 220V/50Hz controller or a 110V/60Hz Galileo or GSI PRO controller
- Three phase 220-480v/60hz or 220-415v/50hz booster pump
- Working pressure: up to 10 bar

Sensors and Accessories:



Electrodes and EC/pH controller



Pressure sensors



Fertilizer meters (optional)

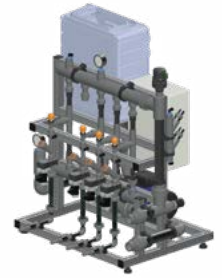


Flow meters

Models:

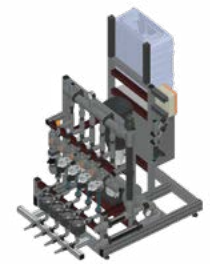
Fertijet ByPass

Suitable for application	Open fields agriculture and Greenhouses, Plantations, Orchards
Spare parts and accessories	Fert. Meters EC/pH Manifold PSV (Pressure Sustaining Valves) PRV (Pressure Reducing Valve)



Fertijet High Flow

Suitable for application	Greenhouses and Hydroponics
Spare parts and accessories	Fert. Meters EC/pH Manifold PSV (Pressure Sustaining Valves) PRV (Pressure Reducing Valve)

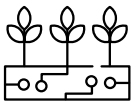


FERTIMIX Series

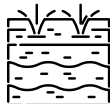
Mixer-based fertilizer system with open tank for maximum precision, which includes EC/pH control, mixing tank enabling full control of the fertilizer mixture, providing pressure to the irrigation system by means of the water pump installed in the Fertimix machine, operated by the Galileo controller



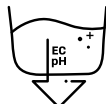
Advantages:



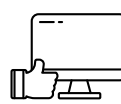
Mixer-based fertilizer machine, including full irrigation head for direct installation on the main line



Pressure to the irrigation system is supplied by the water pump included in the machine



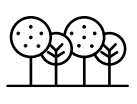
Homogeneous mixture and maximum precision in fertilization doses, achieving EC/pH values in a short time



Management, control, supervision of fertigation of Greenhouses and hydroponics applications by Galileo controller via dedicated PC software



Selection of fertilizer flow, in accordance with the irrigation system and growing needs



A simple and reliable fertilizing system meeting agronomic requirements

Features:

- Stir the fertilizer mixture in the container before watering, according to precise EC/pH control
- The system is available with 1-8 fertilizer channels that are activated simultaneously while fully synchronized
- Fertimix is available in several sizes depending on the irrigation flow
- The FERTIMIX machine includes full irrigation head - pressure pump for irrigation and injection of fertilizer, water meter, main body, a pressure safeguard, and mixing tank. Assembled on a stainless aluminum frame, including Venturi fertilizer injectors, flow meters, irrigation pump, fertilizer valves, with no return, pressure gauge, fertilizer meters and EC/pH controller

Technical Features

- Controller - AC power connection
- Can be ordered with a 50Hz/220V or 60Hz/110V Galileo controller
- Three phase 220-480v/60hz or 220-415v/50hz booster pump
- Working pressure: up to 10 bar

Sensors and Accessories:



Electrodes and EC/pH controller



Pressure sensors



Fertilizer meter (optional)



Water meter



Flow meters



Level gauge in the mixing tank

Models:

FERTIMIX Fertilizer Machine

Description	Multi-channel fertilizer machine with pH/EC control, including fertilizer mixing tank
Controls	With a Galileo controller
Fertilizer flow rate	50 l/h , 150 l/h, 500 l/h, 1000 l/h, Concentrated ACID, Regulated Analog Channel from 100 - 1000 l/h
Irrigation flows	1"- up to 6 cubic meters per hour with a 100-liter container 2"- up to 25 cubic meters per hour with a 200-liter container 3"- up to 35 cubic meters per hour with a 200-liter tank 3" High flow - up to 60 cubic meters per hour with a 200-liter tank
Suitable for application	Greenhouses and Hydroponics
Spare parts and accessories	Fert. Meters EC/pH Manifold PSV (Pressure Sustaining Valves) PRV (Pressure Reducing Valve)

GSF Series

Smart fertilizer system with one or two channels for proportional injection



Advantages:



Fertigation management, supervision, and control for agricultural applications



Application controlled-computer and smartphone



User-friendly web interface



Easy to operate fertigation system



Can be accessed from any computer with no need to install software



New and advanced graphic interface

Features:

- Single/Dual channels fertilizer control
- Proportional and precise quantitative fertigation
- For automatic watering, fertilizing and filter flushing control
- Fertilizer flow rate of: 50 l/h , 150 l/h, 500 l/h, 1000 l/h, Concentrated ACID
- Including fertilizer meter, stainless aluminum frame, Venturi injector,
- Flow meter and three-phase booster pump, and irrigation controller GSI AG Series
- Real-time alarm notification via e-mail and/or push notification from the application

Technical Features

- Controller - AC power connection
- Can be ordered with a 50Hz/220V or 60Hz/110V GSI controller
- SINGLE PHASE 220V/50-60HZ
- Three phase 220-480v/60hz or 220-415v/50hz booster pump
- Working pressure: up to 10 bar

Sensors and Accessories:



Water meter connection



Connection to fertilizer



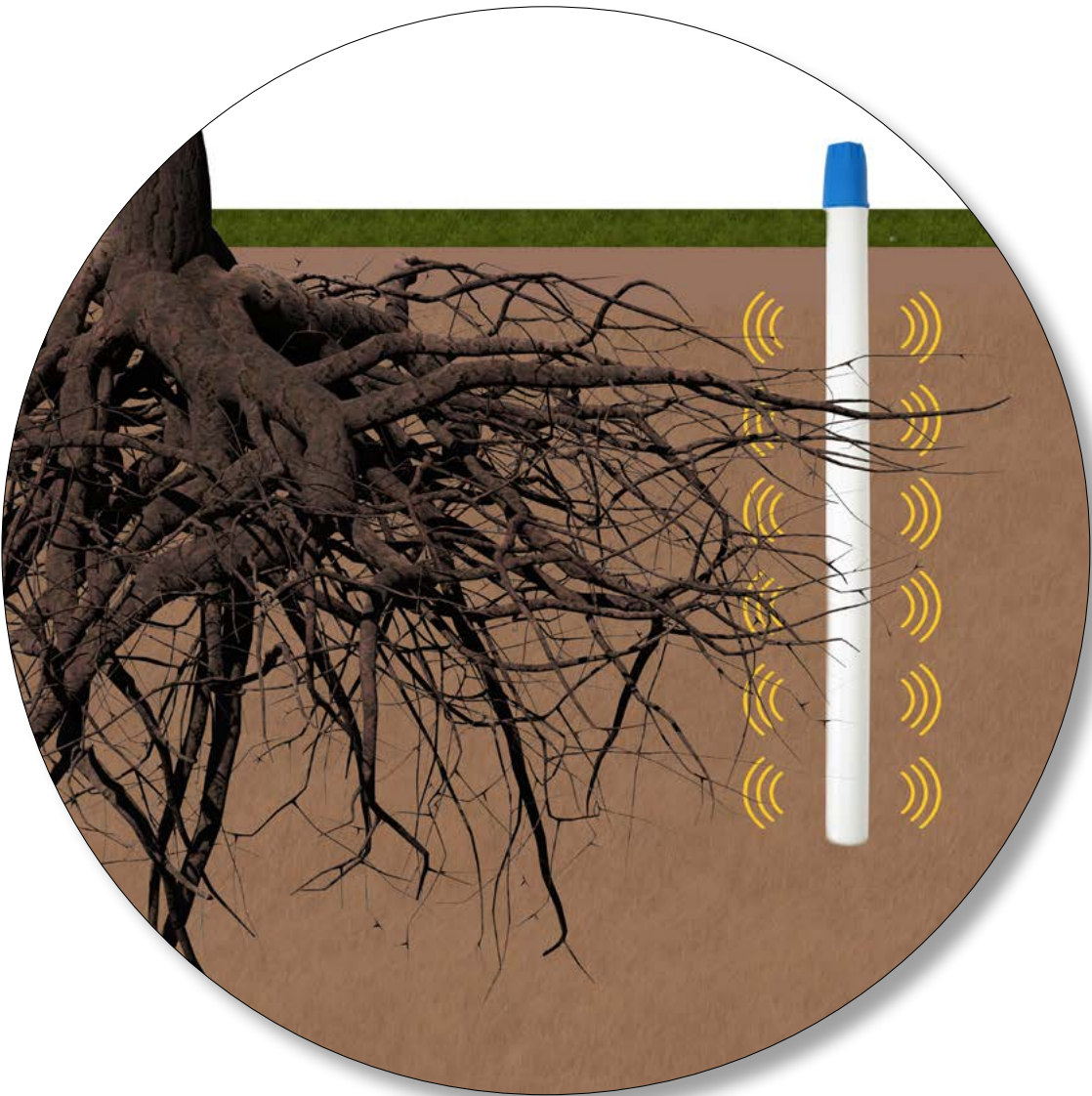
Connection to rain sensor

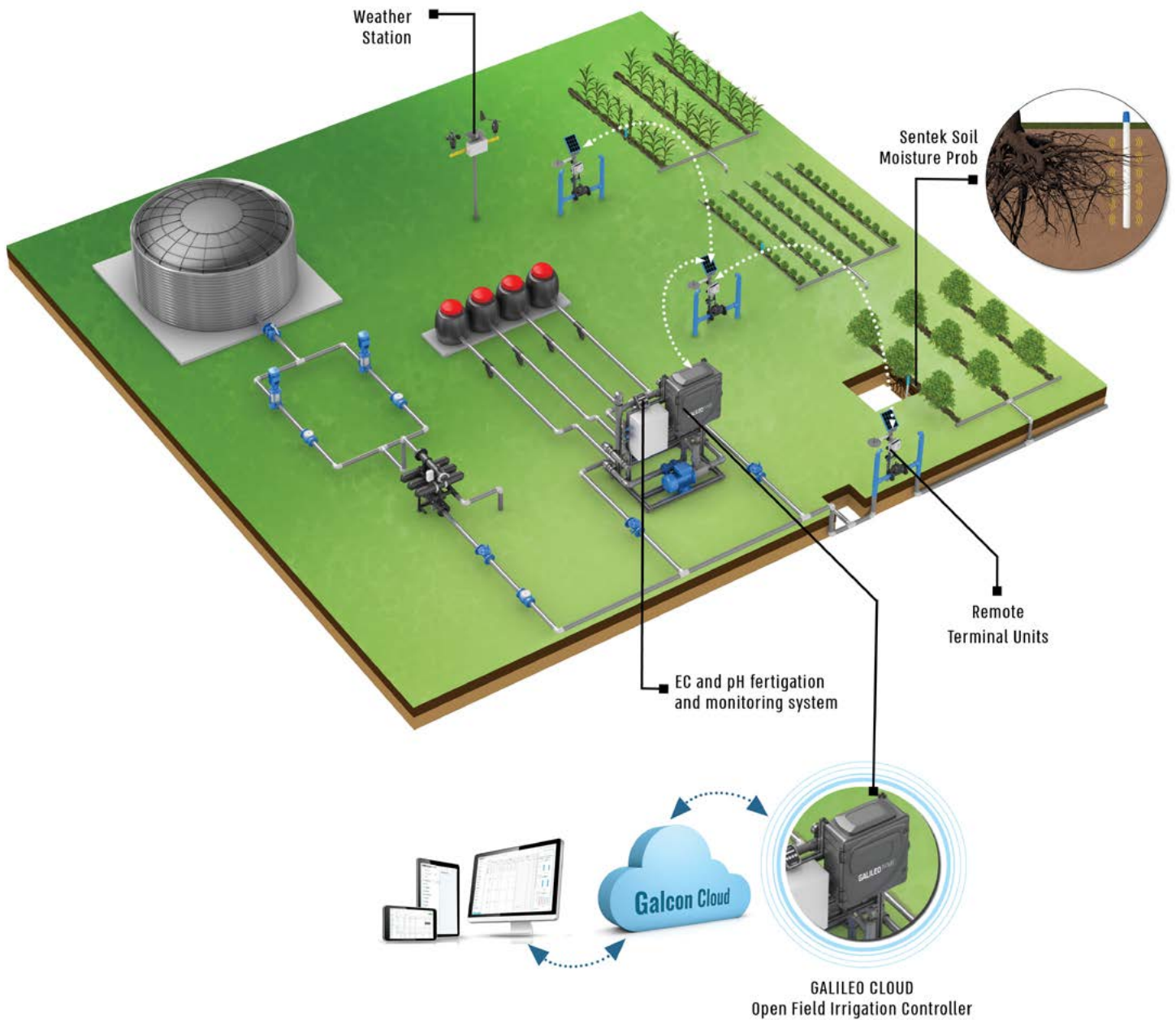
Models:

GSI AG Fertilizer Machine

Description	Multichannel bypass fertilizer machine with one or two channels
Controls	With a GSI PRO
Fertilizer flow rate	50 l/h, 150 l/h, 500 l/h, 1000 l/h, Concentrated ACID
Suitable for application	Open fields agriculture and Greenhouses, Plantations, Orchards
Spare parts and accessories	Fert. Meters EC/pH Manifold PSV (Pressure Sustaining Valves) PRV (Pressure Reducing Valve)

Sensors, Meters & Accessories





Sentek DRILL & DROP

Advanced monitoring system for real-time soil moisture profile management



Advantages:



Profile measuring is presented in a clean and precise manner



Real-time monitoring of soil water, temperature and salinity



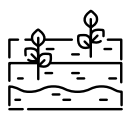
Detailed information of water profile and dissolution in the soil



Maintenance-free and long-lasting



A cellular transmission unit transmitting data to a graphic server



Increasing yield and quality

Features:

- Ideal for seasonal use such as monitoring vegetable and row crops, thanks to the quick and easy installation and removal technique
- For long-term use, ideal for orchards, can be installed and left in place for many years
- Simple and smooth installation, while not creating a muddy mixture for precise, reliable and repetitive reading
- Combines moisture, temperature and salinity readings (optional) of the soil to create a complete image of what is happening in the soil profile different length from 30, 60, 90, 120 CM

Compact telemetry features:

- Cellular transmission unit directly connected to the tracker
- SIM card for sending the data to the Internet and to the IrriMAX Live monitoring station
- Optional, external antenna with high transmission capacity to improve coverage
- Built-in long life battery, without solar pan



IOT DTU Telemetry features

- Cellular transmission unit directly connected to the tracker
- SIM card for sending the data to the internet and to the IrriMax live monitoring station
- External antenna with high transmission capacity to improve coverage
- Built-in long-life rechargeable battery with solar panel



Nexus Blue DTU Telemetry features

- Cellular transmission unit directly connected to the tracker
- Bluetooth connection to D&D probes (cableless)
- SIM card for sending the data to the internet and to the IrriMAX live monitoring station
- External antenna with high transmission capacity to improve coverage
- Built-in long-life rechargeable battery with solar panel



Models:

DRILL & DROP Monitoring System

Description	Real-time soil moisture profile measurement and monitoring
Communication	The sensor is connected to a cellular transmission unit that uploads the data to the IrriMAX Live program
Suitable for application	Open field agriculture, greenhouses
Optional	Salinity measurement
Drill and Drop probe sizes	30, 60, 90, 120 cm
Standard features	EMC: CE, C-tick, FCC

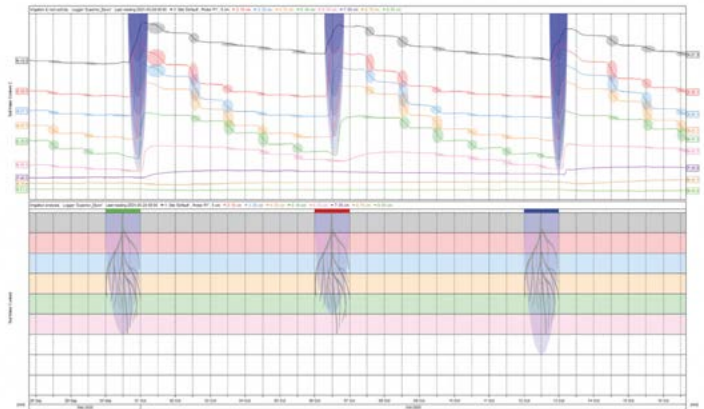
DRILL & DROP BT Monitoring System

Description	Real-time soil moisture profile measurement and monitoring
Communication	The sensor is equipped with a BT transmission unit that transmits the data to the phone and from there to the IrriMAX Live programmer in the cloud
Suitable for application	Open Field Agriculture, greenhouses
Optional	Salinity measurement
Drill and Drop probe sizes	30, 60, 90, 120 cm
Standard features	EMC: CE, C-tick, FCC



IrriMAX Live software features:

- Cloud-based software and browser (no installation required)
- The software enables monitoring the crop performance and the dynamic condition of the soil with the help of any connected device
- Monitoring the activity of the roots and changes in the moisture of the soil, at multiple depths in soil profile
- Dynamic water consumption data
- Information displayed on a map that allows understanding and assessing the status of each feature-rich zone, providing a wealth of information in an easy and convenient manner. Information can be easily shared with staff or agronomists



C02 Sensor

A system that includes a precise sensor for sampling, analysis and control of the C02 level in greenhouses or hydroponics structures



Advantages:



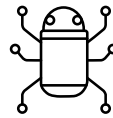
Automatic calibration for excellent long-term stability



Low temperature susceptibility



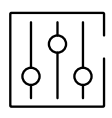
Quick response time version



Low pollution susceptibility



Quick and easy installation



User configuration and easy adjustment

Features:

- Measurement options:
- 2000 ppm
- 5000 ppm
- 10000 ppm

Technical Features:

- DC controller – operates with lithium batteries or solar panel
- Controller – AC power connection
- Indoor/outdoor antenna

Models:

C02 Sensor

Description	EE820 C02
Control over	Operated by Galileo controller
Suitable for application	Greenhouses and hydroponics

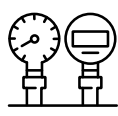


3050 EC/pH Sensor

EC and pH sampling and monitoring system for correction of fertilization in the fertilizer machine based on monitoring of mineral solvents, acidity and water bases



Advantages:



For high pressure or low pressure operation



Real-time EC/pH monitoring of water drainage



Option for standalone operation or connection to irrigation controllers



"Temperature compensation" during measurement by built-in sensor



Sample glass

Features:

- Precision EC sampling and monitoring system enabling electrical conductivity control in water, thus allowing to monitor mineral solvents in water
- Possibility of fertigation according to online EC/pH analysis
- Sampling is taken during and after irrigation
- Depending on the measured values, the controller will automatically perform the following actions:
- Increasing the amount of water in the next cycle
- Reducing the dose of fertilizer/acid in the next cycle
- The basic system includes 2 sampling points and EC/pH controller

Technical Features:

- 24V AC 50/60Hz ± 25% 5W feed voltage
- Maximum working temperature 50°C
- Minimum working temperature 5°C
- Outputs – 4-20mA

Sensors and Accessories:



Electrodes and EC/pH controller

Models:

3050 EC/pH Sampling and Monitoring System

Description	EC/pH sampling and analysis system
Control over	Operated by Galileo controller or standalone
Suitable for application	Hydroponics, greenhouses, open fields

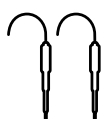


Temperature and humidity measuring

Monitoring unit for transmitting real-time temperature and humidity data to Galileo for optimal adjustment of irrigation programs to climate conditions.



Advantages:



2 PT100 sensors for simplicity and reliability



Available in electronic maintenance-free version



Transmitting real-time temperature and relative humidity data to Galileo

Features:

- Connected to Galileo, the unit allows:
- Real-time response to temperature and humidity changes
- Switching fans ON/OFF in the greenhouse according to built-in control plans
- Opening/closing windows in a greenhouse

Technical Features:

- Withstands extreme weather conditions
- The sensors are installed on a hard metal case
- Simple installation and connection
- Signal 4-20 mA
- Easy and smooth installation and connection



Sensors and Accessories:



PT100



Electronic humidity meter



24 VAC fan for wet sleeve version

Models:

Temperature and Humidity Measurement

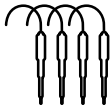
Description	Temperature and humidity measurement monitoring unit
Controlled by	Operated by Galileo controller
Suitable for application	Hydroponics, greenhouses, open space

Real-time weather station

Monitoring unit for transmitting real-time weather data to Galileo for optimal adjustment of irrigation programs to climate. Allows energy savings in the greenhouse and preservation of the structure



Advantages:



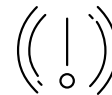
4 built-in sensors + 2 optional



Real-time monitoring of wind direction, wind speed, radiation, rain



Option to add temperature and humidity measurement



Warning of unusual climate data

Features:

- Possibility of fertigation according to accumulated radiation
- Automatic opening/closing of windows in the greenhouse (according to wind direction)
- Real-time adjustment of irrigation plans to the climate – temperature, humidity, wind
- The basic system includes measuring wind direction and speed, radiation, rain Option to add temperature and humidity measurement

Technical Features:

- Withstands extreme weather conditions
- The sensors are mounted on a fiberglass profile
- Simple installation and connection
- Signal 4-20mA, dry contact (rain gauge)

Sensors and Accessories:



Wind direction and speed meter



PAR Radiation Meter



Rainfall meter



Breathing cell - humidity and temperature (optional) Models

Models:

Weather Station

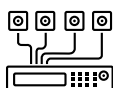
Description	Climate data monitoring unit
Controlled by	Operated by Galileo controller
Suitable for application	Hydroponics, greenhouses, open areas

G1W unidirectional radio units

A radio system enabling the operation of remote components from the controller without the need for wiring



Advantages:



Can be activated via connection to the ports of each controller



Low power consumption, batteries of terminal unit last about 3 years



Saves data in any situation



Simple installation and high reliability



Internal antenna prevents the need for installing high external antennas

Features:

- Transmission range of 2 km in line of sight between the transmitter and the RTUs
- For operating valves, pumps, fertilizers, fans, lighting and more
- Available in 2 or 4 activation formats
- Option to connect to a solar kit
- UV IP65 radiation resistance

Technical Features:

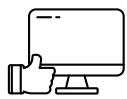
- DC Outputs - Latch 18 VDC
- Power Source 3.6 VDC Lithium Battery
- Available at frequencies of 433 MHz, 915 MHz

G2W bidirectional radio units

A radio system enabling the Galileo controller to remotely operate components and collect data from sensors without the need for cabling



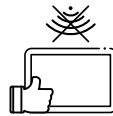
Advantages:



Fully compatible with Galileo software with no need for any additional software



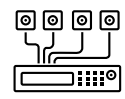
Low power consumption



Local monitor signaling and operating also in case of loss of communication



Saves data in any situation



Analog inputs to pressure meter, temperature meter, tensiometer, and more



Relative fertilization



Troubleshooting software for monitoring system performance



Range coverage of up to 18 km with the help of relays

Features:

- Transmission range of 2 km in line of sight, 9 relays can be used for maximum range
- For operating valves, pumps, fertilizers, fans, lighting and more
- Enables analog and digital sensors data collection
- Available in 4 or 8 activation formats, 3 analog inputs, 6 digital inputs
- Option to connect to a solar kit
- Possibility to skip frequencies when needed

Technical Features:

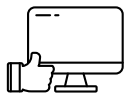
- DC Outputs - Latch 18 VDC
- Option to operate 2 or 3-wire solenoids
- RTU Power Source: 4 D-type 1.5 VDC batteries, relay: 7.4 VDC lithium battery
- Analog inputs 0-10 VDC or 4-20 mA
- Available at frequencies of 433MHz, 915MHz

CRTU - Cabled Remote Terminal Units

A system enabling the Galileo controller to remotely operate components and collect sensor data without the need for cabling



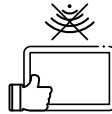
Advantages:



Fully compatible with Galileo software with no need for any additional software



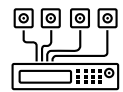
Low power consumption



Local monitor signaling and operating also in case of loss of communication



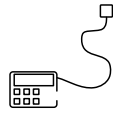
Saves data in any situation



Analog inputs to pressure meter, temperature meter, tensiometer, and more



Relative fertilization



Connecting remote unit to the controller via a standard 3x1.5 mm² power cord

Features:

- Up to 1,500 meter distance between the controller and the remote unit
- For operating valves, pumps, fertilizers, fans, lighting and more
- Enables analog and digital sensor data collection
- Available in 4 or 8 activation formats, 4 analog inputs, 8 digital inputs

Technical Features:

- DC Outputs - Latch 18VDC
- Option to operate 2 or 3-wire solenoids
- Analog inputs 0-10 VDC or 4-20 mA



Member of the  **PLASSON**® Group



Residential
Garden



Turf &
Landscape



Agriculture



Greenhouses

Galcon Kfar Blum

Tel. 972-4-6900222 | Email info@galconc.com
www.galconc.com