



GALILEO CLOUD

Total cloud-based agriculture controller



TOTAL CONTROL

GALILEO CLOUD

A state-of-the-art cloud-based controller for Agriculture

An advanced cloud based modular controller for irrigation and fertigation, in large complex areas with multiple valves and various hydraulic elements.



Modular & Flexible Hardware

Versatile and flexible adaptation with expansion cards for users specific application.

Cloud Based

Available from anywhere: Wi-Fi, LAN, Bluetooth, Cellular, and radio connectivity.

Remote Terminal Stations

Enables the Galileo Cloud controller to remotely operate components and collect sensor data without the need for cabling.



Smart Fertigation

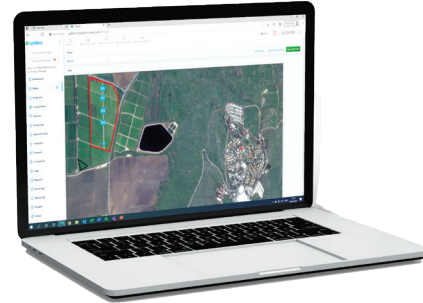
Full control over Galcon's state of the art Fertigation machines.
Multi main lines Ec/pH control capabilities.
On/off or analog fertilizers dosing channels in multiple flow rates.





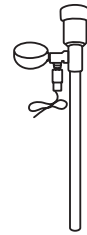
Live Map

Allows real-time viewing of all system's controlled elements and their status



Cloud-based Smart Sensors (Sentek)

Advanced monitoring system for real-time soil moisture profile management.



Weather Stations

Provides real-time weather monitoring under the most demanding conditions.
API to web service weather station forecast



User-friendly, Multilingual Interface

PC, Laptop, tablet, cell phone in multiple languages.
Easy accessibility anytime, anywhere.



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The most advanced Cloud-Based controller for Agriculture

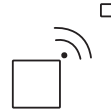
Advantages:



Management & control of irrigation and fertilization



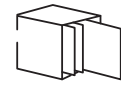
Operation of fertilizing machines with EC/pH control



Operation of remote terminal units - radio or wireline



Flexibility - ideal for a range of applications



Modular system

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 7 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 6 fertilizer pumps to be operated, with pH/EC 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

Technical Characteristics:

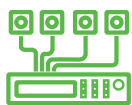
AC model

- I/O Cards: 24 outputs, 16 analogue, 8/16 digital inputs/ outputs
- 220V/50Hz or 110V/60Hz
- 24V outputs, 4-20mA analog inputs
- Activation of radio end units (W, WEX, WEXX models)

DC model

- I/O Cards: 8 digital inputs / 8 outputs / 16 analog
- 12V DC power supply, for operation of DC Latch solenoids
- Activation of radio end units (W Model)
- 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



pH/EC sensors



Radio terminal units



Operating fertilizer machines

Models:

Galileo W controller (AC/DC)

Modular controller in a small case

Galileo WEX Controller

Control of pump housings, filters, fertilizers, valves

Galileo WEXX Controller

Control of pump housings, filters, fertilizers, valves

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