

Controller for irrigation managed with a weight system powered by an electrical network or a photovoltaic panel.

DESIGNED&PRODUCED BY SPAGNOL

G-Fenix



{...an innovative and effective irrigation....}



G-Fenix is a unique and innovative controller for irrigation management based on the weight of cultivation powered by the electricity grid. G-Fenix continuously measures the loss of cultivation by intervening with irrigation just when the plant requires it and for the amount necessary to obtain the right drainage.

The benefits are countless: fertilizer and water savings, no stress on cultivation, and no excessive run-off of the substrate. **G-Fenix** can also manage fog, mist and antifreeze systems by means of temperature and room humidity sensors. With the **MC-Net**, **MC-Cloud**, **MC-SMS** services, the user always has complete remote control of the system.

G-Fenix Irrigation controller based on weight



- Up to 4 scales
- Up to 24 irrigation valves
- 24 multifunction irrigation programs

Controller for the management of irrigation according to weight
G-Fenix allows managing irrigation according to the weight of the substrate and cultivation.

Thanks to the scales, a cultivation portion is taken to sample and measured continuously with precision.

The software then uses the weight measurement to manage the frequency and duration of the irrigations, accurately adjusting the amount of irrigation and the amount of drainage desired. Irrigation and drainage quantities can be programmed up to 4 periods per day. Particular attention is given to the morning where the start of irrigation is managed in order to ensure proper oxygenation of the substrate and the beginning of drainage at the desired time.

G-Fenix base controls 1 scale and is expandable up to 4 scales. A single scale can control several irrigation programs so as to exploit the strategy even on irrigation areas without their own scale.

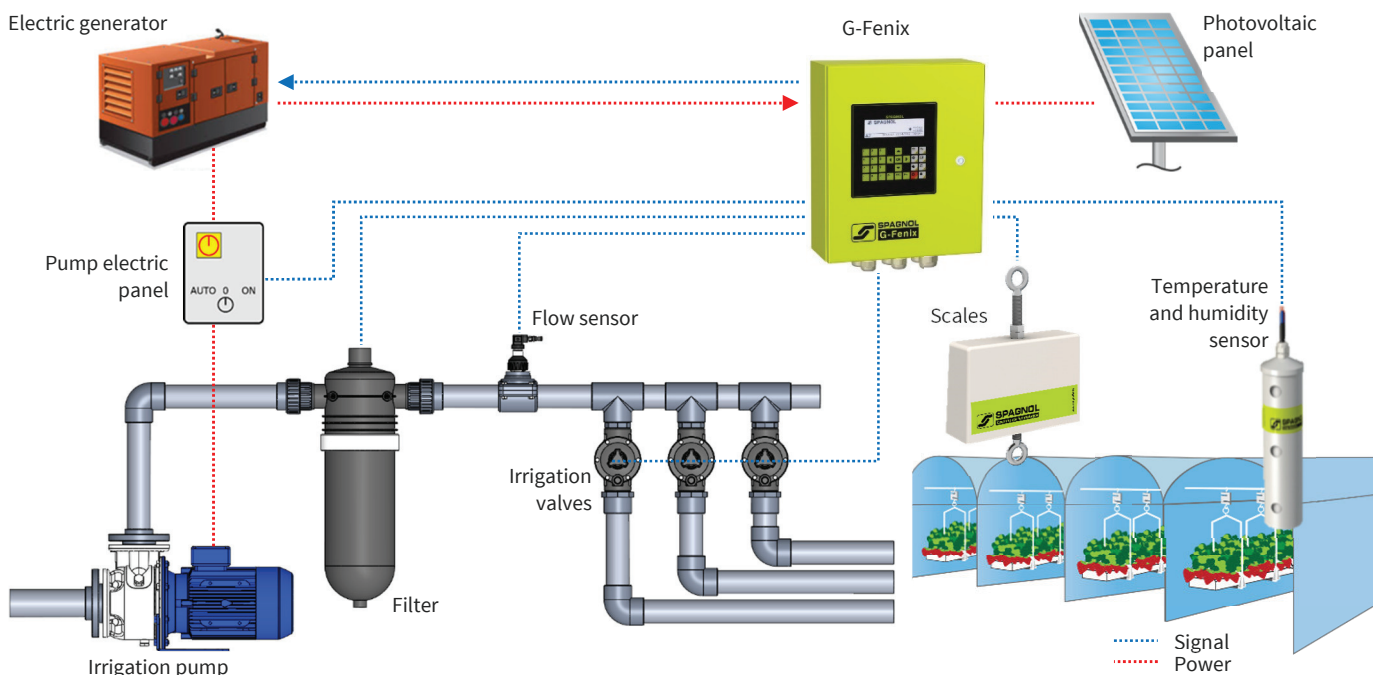
G-Fenix can be connected to a wide range of sensors, such as the temperature / humidity sensor for fog / mist management, the irrigation flow sensor, and many others. G-Fenix is available with 230 / 240VAC power supply (24VAC outputs) or photovoltaic panel (latch outputs for impulse solenoids)





The mobile modem accessory allows you to receive text messages or calls in case of alarms or anomalies. On G-Fenix with 230 / 240VAC power supply, this accessory combined with the power backup accessory allows you to be informed in case of power failure from the network.



Like all Spagnol controllers, G-Fenix can also be supervised with Spagnol MC-Cloud and managed through the Web portal or with the Android and iOS app. The connection can be made via a network cable (with internet connection) or by installing the mobile modem accessory. In any case, it is always possible to supervise G-Fenix on-premises (installation on site) using the Spagnol-MCNet supervision software. MIXED CLOUD/ON-PREMISES SOLUTIONS ARE ALSO POSSIBLE.






G-FENIX BASE:



	Code	Description
	302001007	<p>FENIX-M-23S-P, G-Fenix controller with electric power of 220-240VAC 50-60Hz, completed of:</p> <ul style="list-style-type: none"> • 1 scale (2 traction load cells + interface box) • 8 relay outputs⁽¹⁾ for the command of 24VAC loads⁽²⁾ (outputs standard function: 7 zone valves + 1 irrigation pump) • 3 S-BUS sensor inputs⁽¹⁾ (example: more scales code 303002001) • 6 contact sensor input⁽¹⁾ • 2 free slots for I/O expansion boards
	302001009	<p>FENIX-M-PV-P, G-Fenix controller with electric power from photovoltaic panel (included), completed of:</p> <ul style="list-style-type: none"> • 1 scale (2 traction load cells + interface box) • 4 latch output⁽¹⁾ for the command of 2/3 latch solenoid⁽³⁾ (outputs standard function: 4 zone valves) • 3 S-BUS sensor inputs⁽¹⁾ (example: more scales code 303002001) • 6 contact sensor input⁽¹⁾ • 2 free slots for I/O expansion boards

⁽¹⁾ Outputs and inputs have predefined factory function (see product manual). Outputs and inputs function can be customized by using the USB console cable or Bluetooth console board (see Accessories). ⁽²⁾ Maximum total load: 80VA. ⁽³⁾ Configurable 9÷28VDC 10÷100ms








SENSORS:

	Code	Required sensor input type:	
		S-BUS	Contact
	303002001	✓	
	303001001	✓	
	Page 124		✓

EXPANSION BOARDS:

	Code	Compatible with:	
		FENIX-M-25-G	FENIX-M-PV-G
	ESH0141	✓	
	ESH0142		✓

ACCESSORIES:

Description	Code	Description	Code
 Cellular modem for alarm reporting and cloud service* (*subscription required)	304003001	 Expansion boxes	Page 131
 Backup power (only for FENIX-M-23S-P)	Page 133	 Electric generator command output	ATT0082
 Cloud service	Page 146	 Console USB cable	EAP0816
		 Console Bluetooth board	304003006