

Controller for managing the dosage of fertilizers in irrigation water.

{...irrigation and nutrition, the starting point for fertigation....}

DESIGNED&PRODUCED BY SPAGNOL

F-Fenix



F-Fenix is a unique and innovative controller for the complete management of the fertigation system. It controls the irrigation valves and the fertilizer and acid dosage, the main irrigation pump and the washing of the filters. Fertilizer and acid dosage can be done proportionally or with EC and pH regulation.

The **F-Fenix** controller can be connected to multiple options that allow you to completely automate irrigation. With the **MC-Net**, **MC-Cloud**, **MC-SMS** services, the user always has complete remote control of the system.

F-Fenix Fertigation controller



- 24 multifunction irrigation programs
- 8 zone valve outputs (max.16)
- 1 EC sensor + 1 pH sensor
- 4 fertilizer dosing outputs
- 1 acid dosing output

CONTROLLER FOR THE MANAGEMENT OF FERTIGATION

Designed and developed for those installations that, even if simple, has the need to manage in an automated and precise way the fertigation, measuring and regulating ECE pH.

F-Fenix can control the irrigation valves, the dosage of up to 4 fertilizers and 1 acid/alkaline, the automatic starting of irrigations (by timer setting / hour setting / radiation accumulation / external input / antifreeze / fog-mist), the washing of filters, the irrigation pumps, the flow sensors of the irrigation lines, the water storage tanks, the electric generator and much more. F-Fenix can be connected to a wide range of sensors, such as the radiation sensor for storage irrigation, the temperature and humidity sensor for fog / mist management, the irrigation flow sensor, and much more. If necessary, F-Fenix can be expanded by means of appropriate panels to house new boards.

The expansion panels are connected to F-Fenix by simple BUS cable also over long distances.

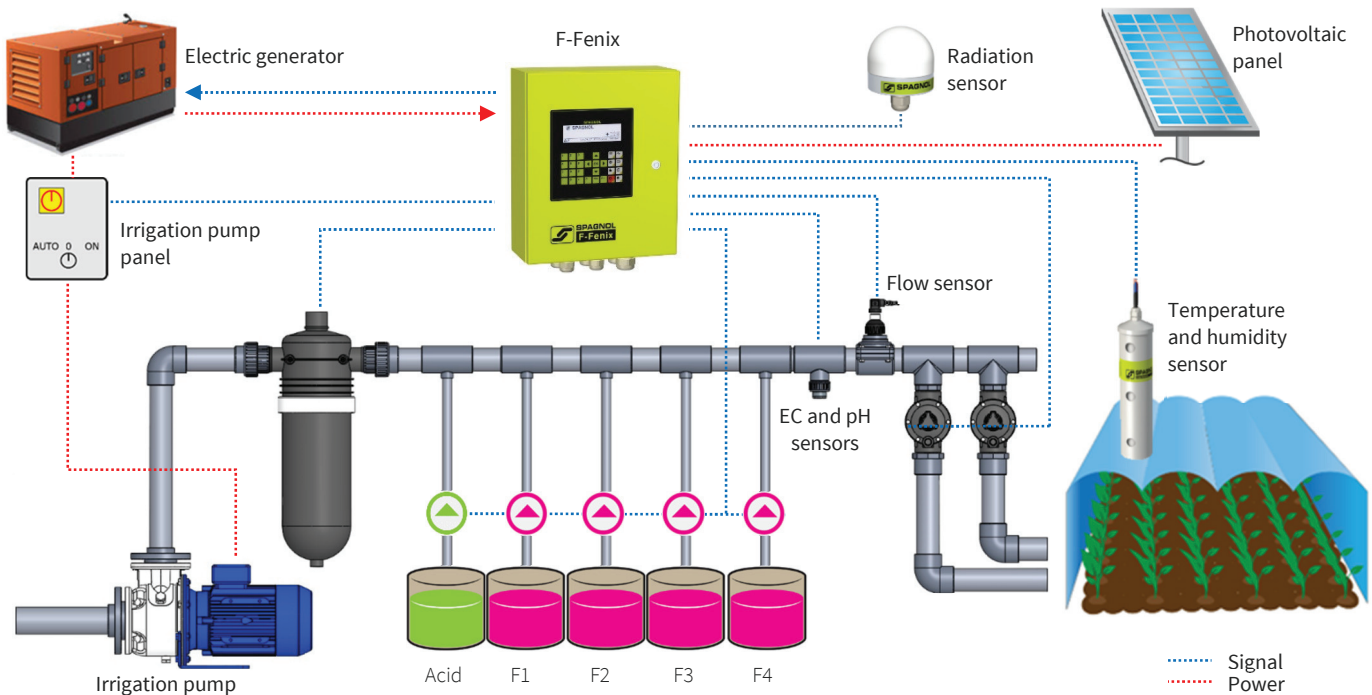
F-Fenix is available with electrical power supply at 230/240VAC (24VAC outputs) or with external power supply 24VDC (24VDC outputs).





The mobile modem accessory allows you to receive text messages or calls in case of alarms or anomalies. On F-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, F-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 F-Fenix on-premises (installation on site) using the Spagnol-MCNet supervision software. Mixed cloud/on-premises solutions are also possible.






F-FENIX BASE:

	CODICE	DESCRIZIONE	
	302001004	<p>FENIX-M-23S-F, F-Fenix controller with electric power of 220-240VAC 50-60Hz, completed of:</p> <ul style="list-style-type: none"> • 16 relay outputs for the command of 24VAC loads ^{(1) (2)} • 1 EC sensor + 1 pH sensor (with related board) ⁽⁴⁾ • 4 S-BUS sensor inputs ⁽¹⁾ • 6 contact sensor inputs ⁽¹⁾ • 1 free slot for I/O expansion board 	<p>Standard outputs configuration ⁽¹⁾:</p> <ul style="list-style-type: none"> • 8 zone valves • 4 fertilizer dosing • 1 acid dosing • 1 irrigation line pump • 1 dosing system pump • 1 alarm output
	302001006	<p>FENIX-M-EX-F, F-Fenix controller with electric power of 24VDC, completed of:</p> <ul style="list-style-type: none"> • 16 relay outputs for the command of 24VDC loads ^{(1) (3)} • 1 EC sensor + 1 pH sensor (with related board) ⁽⁴⁾ • 4 S-BUS sensor inputs ⁽¹⁾ • 6 contact sensor inputs ⁽¹⁾ • 1 free slot for I/O expansion board 	


⁽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, maximum single output current: 0.6A ⁽³⁾ Maximum total load: 7A, maximum single output current: 0.6A ⁽⁴⁾ EC: male G1" ¼, pH: male G½"










SENSORS:

	Code	Required sensor input type:	
		S-BUS	Contact
	Radiation sensor for the irrigation by radiation sum (Joule) 303002001	✓	
	Temperature and humidity sensor (for fog/mist irrigations) 303001001	✓	
	Irrigation line flow sensor Page 124		✓

EXPANSION BOARDS:

	Code	Compatible with:	
		FENIX-M-25-F	FENIX-M-EX-F
	8 relay outputs board ESH0141	✓	✓

ACCESSORIES:

Description	Code	Description	Code
 Cellular modem for alarm reporting and cloud service* (*subscription required)	304003001	 Expansion boxes	Page 131
 Backup power (inly per FENIX-M-23S-I)	Page 133	 Electric generator command output	ATT0082
 Cloud service	Page 146	 Console USB cable	EAP0816
 Radio system	Page 140	 Console Bluetooth board	304003006
 MC-Net supervision software	Page 144		