Technical Data

Management Computers >

> Agronic 5500

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DESCRIPTION:

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Application				
 Irrigation and fertigation control unit 	 EC and pH management 			
· Soilless greenhouses, cultivations on soil and vineyard	S			
Sp	ecifics			
LCD display - 128/64 pixel-backlit	 Language: italian (others on request) 			
Waterproof soft-touch keyboard, alphanumeric, 15	 Box version for free installation 			
keys				
Hardwa	re Features			
• Outputs: 10/20/30	Counter inputs: 10			
 Preconfigured inputs: 4 fertilizers - 1 acid 	• 220/24 V AC transformer not included in the specific			
Digital inputs: 16 (expandable)	model			
Analog inputs: 6 - 12	• Free installation box dimensions: 296 x 287 x 120 mm			
Ma	terials			
Free installation box: PC/ABS	Box support: stainless steel			
 Front panel: aluminium 				

				Stations					
	MODELS CHART			10		20		30	
		Solenoid type		Box	Built-in	Box	Built-in	Вох	Built-in
Model	Supply	output tension	Model	Code	Code	Code	Code	Code	Code
220/24 AC	220 V 50 Hz AC	24 V AC	220/24 AC	0PG1303	0PG1304	0PG1305	0PG1306	0PG1311	OPG1312
12 V DC	12 V DC	12 V DC	12 V DC	0PG1307	0PG1308	0PG1309	0PG1310	0PG1313	0PG1314

Irrig	ation
 It manages the irrigation of 30 sectors governed by 16 independent programs Each program includes starting conditions, irrigation values in time or volume Up to 9 sectors Fertigation by conductivity or uniform managed in units of time or volume Procedure for adjusting the pH, procedure for mixing the incoming water 	 There are different ways of starting the program, by means of determining factors, by sensors, sequential, based on the days of the week or the frequency of days and an active time A program can perform pulse irrigations
Ferti	gation
• It controls the injection of up to 4 fertilizers, an acid, a fertilizer for the treatment and a mixer	application where the amount of each fertilizer will be uniformly divided in irrigation
• It can inject the fertilizer independently for each program by adjusting the conductivity (EC) by means of a proportion between the 4 fertilizers, or by uniform	 Independent pre-irrigation and post-irrigation for each program
Pun	nping
Agronic 5500 has from 1 to 2 general irrigation outputs, or pumps, with assignment of activation sectors	• Optionally start a diesel engine or a generator set, check the inputs for start, stop, contact and pre-heat. Start and Stop electric pump. Malfunction detection
Blei	nding
Controls the mixing of two waters to obtain water conductivity according to the act	ive irrigation program
Cleaning	g the filter
 It allows you to clean up to 9 filters, choosing the washing time - programmable break between filters The start of the washing sequence can be set by the differential pressure and / or by the time and volume of the water flow 	 It can be performed only at the beginning or during irrigation The behavior of fertigation and irrigation can be configured while filter cleaning is in progress



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Nebulization					
It manages the nebulization of up to 4 groups with a maximum of 8 valves per	Cooling and / or humidification function through temperature and / or humidity				
group	sensors				
Determining factors					
 Agronic 5500 has a total of 50 fully configurable determinants to perform tasks that take into account the condition or values of digital or analog sensors or meters, as well as errors produced in EC, pH or mix regulation The factors are so different that they are able to perform permanent, temporary or conditional stops, applied to a particular program or to all, to start and / or stop 	 an irrigation process, to change the frequency of irrigation cycles, to produce a warning, to adjust irrigation or fertilization at the start of the irrigation program based on an instantaneous value from a sensor, the integrated value from the previous irrigation process, etc. Furthermore, each determinant can be configured to generate an SMS message rrigation 				
Optionally, irrigation management on systems with solar panels connected	pressures				
directly to a variable frequency drive to activate an irrigation pump • It also allows you to have hybrid installations with energy from the electricity grid	 The radiation sensor conditions irrigation until there is enough energy to generate the working pressure 				
or from a generator. This operation has different priorities for irrigation at different	l modules				
Optionally, it allows connection to AgroBee radio modules, increasing the	It allows you to remotely locate irrigation valves, digital and analog sensors and				
possibility of expansion and the use of new functions	meters, easily, through the different modules of the range				

• It is a system based on the ZigBee protocol on free band 868/915 MHz

Options	Code	Description
Option for expansion of Agronic 5500 analog inputs	FER190	Option for A-5500 6 analog inputs
Specific option for diesel pump systems management. Start/stop, general contact and pre-heating	FER2517	Diesel engine
Specific option for management of generator powered systems. 12V start command, 220 V AC power supply. Including diesel engine management (for 20 outputs only)	FER192	Dual-voltage option + diesel engines
Option for mixing control of 2 different water sources	FER197	Mixing option
SDI expansion kit 12 + 4 analog outputs x A 5500	FER199	SDI option $12 + 4$ analog outputs
Specific option for Agronic Agrobee radio system connection. Including Agrobee coordination device,	FER2507	ZIGBEE Agrobee connection option
omnidirectional antenna, 10 mt cable connection	FER2520	Agronic Agrobee LoRa interface

Commu	inication - Hardware	Code	Description
Via cable local communication	RS485 max 100 mt	FER2518	RS485 link
	USB 2.0 max 3 mt	FER2504	USB link
	Modem GPRS (SIM)	FER196	Modem GPRS/SMS option
Remote communication	Wi-Fi max 20 mt		Wi-Fi option
	RADIO max 2 km	FER198	Radio link 433 option

Communication - Software	Code	Description
It supplies access to the system by Agronic App and/or Web. GPRS modem or Wi-Fi module requested. Activated	FER194	WEB platform (including Agronic APP and
by unblock code	FEN 194	Agronic WEB)

Power supplies	Code	Description
Optional standard power supply for 12 V DC outputs from 220 V AC mains	FER2512	Transformer 220V - 12 V DC 2A
Optional standard power supply for 24 V AC outputs from 220 V AC mains	FERC974	Transformer 220V - 24 V AC 50 VA
Control board x Agronic w/transformer	EQEA024	Transformer 230/24 V AC 100 V A x Agronic

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