Technical Data

Management Computers >

> Agronic 2500



DESCRIPTION:

.**U**ŝ

Application					
 Irrigation and fertigation control unit 					
• Applications in open field, fruit farming and vineyards,	tunnel and glasshouses				
Spo	ecifics				
 LCD display - 128 x 64, backlit 	Language: Italian (others on request)				
Waterproof soft-touch keyboard, alphanumeric and	 Box version for free installation 				
specific menu keys	 Built-in version for installation in electric panel 				
Hardwa	re Features				
• Expandable outputs: 9 - 18 - 27	• 220/24VAC transformer included in the specific model				
Digital inputs: 6	 Free installation box dimensions: 				
 Analog inputs: 2 (optional) 	mm 220 x mm 190 x mm 110				
Ma	terials				
Free installation box: PC/ABS	Box support: stainless steel				

• Front panel: aluminium

			Stations						
		9	9 18		8	27			
		Box	x Built-in Box Built-in		Built-in	Вох	Built-in		
Power supply	Command	Code	Code	Code	Code	Code	Code		
220 V AC	24 V AC	0PG2500	0PG2503	0PG2501	0PG2504	0PG2502	0PG2505		
Battery	12 V DC	0PG2506	0PG2509	0PG2507	0PG2510	0PG2508	0PG2511		
Solar panel	Latch 2 W	0PG2512	0PG2515	0PG2513	0PG2516	0PG2514	0PG2517		
Solar panel	Latch 3 W	0PG2518	0PG2521	0PG2519	0PG2522	0PG2520	0PG2523		
220 V AC + Diesel	12 V DC/24 V AC	0PG2524	0PG2527	0PG2525	0PG2528	0PG2526	0PG2529		
Battery with charger	12 V DC	0PG2530	0PG2533	0PG2531	0PG2534	0PG2532	0PG2535		

Irrigation specification	S
--------------------------	---

• The Agronic 2500 can operate up to 27 irrigation sectors, manageable through Management of the irrigation period by time (hh: mm) or by volume (m³) 50 independent irrigation programs. Up to 4 irrigation sectors can be activated Management of the water meter through the EV system launches pulses for the simultaneously and two active programs simultaneously separate accounting of irrigation volumes, according to the parameters entered · Management of the irrigation cycle through weekly calendar, frequency of and planned irrigation, in sequence of programs or through external input **Fertigation specifications** • Up to 4 independent fertilizers can be managed · Fertilizer injection achievable in "series" or "parallel" · Independent pre and post irrigation time management for each program • In the parallel configuration the programmed fertilizers are all injected · Fertigation managed by time or by volume simultaneously each with a dedicated injection channel, in the series Management of mixer for tanks with intermittent or continuous programmable configuration they are injected one at a time through a single injection channel activation Master valve / pump specifications • Up to two outputs dedicated to the management of master valves or generic · Possibility of setting the activation irrigation sectors for each electric pumps are available **Filtration specifications** • Up to 9 filters can be managed • During the washing phases, irrigation and fertilizer injection operations can be · User-settable washing and pause time between filters interrupted • Washing started by timer (hh:mm), differential pressure switch (mca) or volume Control of differential pressure switch malfunction in case of repeated cleaning

scarabelli

of water (m³) if there is a volumetric meter

 Control of differential pressure switch malfunction in case of repeated cleaning cycles without checking

SCARABELLI IRRIGAZIONE s.r.l. • Via Viadagola 48 • 40057 Granarolo dell'Emilia (BO) Tel +39(0)51 763.363 • Fax +39(0)51 763.397 • www.scarabelli.it • info@scarabelli.it

Technical Data

Management Computers >

Specifications PLUS Option

• The Plus option that can be inserted both in the Agronic 2500 purchase phase and that can be inserted on already installed machines allows the software to expand the management possibilities of specific parameters to respect needs of the operator

Program activation:

- possibility of defining a specific sequence of activation / deactivation days for pulsed irrigation, defining a pause time between repeated activations; program duration limit, in case you work with on / off via program sensors with activations in specific time periods
- safety time between irrigation starts to prevent continuous commands when sensors are activated

Fertigation:

• uniform management of fertilizer injection; the software will inject the fertilizer

for the entire duration of the useful irrigation cycle Irriaation manaaement:

• possibility of using the formats m³/ha (cubic meters per hectare) or I / ha (liters per hectare); determining factors: the possible conditions are increased from 5 to 30 for which it is possible to automatically change the behavior of irrigation or other managed parameters; digital, analogue sensors, meters or integrated data from a previous irrigation can be used

Command description:

- textual descriptions for programs, sectors, sensors and determinants Sensors:
- management of up to 10 meters (up to 4 for fertilizers remaining for irrigation) plus 20 analog sensors and 20 digital sensors

PLUS Option	Code	Description
Necessary option for analog sensors management. It increases Agronic 2500 performances. Activation by unblock code	FER2501	Agronic 2500 Plus Option

Agrobee Option	Code	Description
Agrobee option allows control of the field equipement by a codified radio system. It includes: Agrobee coordination	FER2507	Agrobee ZIGBEE interface for Agronic
device, omnidirectional antenna, 10 mt connection cable	FER2520	Agrobee LoRa interface for Agronic
Agrabae LoRa standard system – agrabae 71GREE on request		

Diesel Engine Control Option	Code	Description
By this option, agronic 2500 can manage a diesel engine with all the necessary parameters. On/off command, contact, pre-heating. Activation by unblock code	FER2500	Diesel engine control box option

Analog Inputs Option	Code	Description
Management of 2 analog inputs (it requires the plus option installed)	FER2508	Analog inputs option

SDI Expansion Option	Code	Description
SDI expansion 12 + 4 analog outputs x A 2500	FER2516	SDI 112 option + 4 Ext. anal.



Technical Data

Management Computers >

Communication specifications

- Agronic 2500 can interface with the user in different ways depending on the instrument to be used and the characteristics of the connection itself
- For remote management of the Agronic 2500, smartphones, PDAs, tablets and PCs can be used via an internet connection and software that can be used via cloud in the case of local connections, a PC software will be available to install *Local communication*
- Possibility of interfacing the Agronic 2500 with a local PC via RS232 connection (max 20 mt approx) or RS485 (max max approx 200 mt).
- GPRS modem communication

Automation

• Possibility of interfacing via GPRS communication from any instrument with Wi-Fi or LAN access to the internet - an M2M SIM is required

Wi-Fl communication

 Possibility of interfacing with an existing wi-fi network to give access to the internet

Radio communication

 Possibility of communication via radio link, up to 20 km in relation to the orography of the territory, in the event that no other type of communication is possible

	Transformers	Code	Description
)	Optional standard transformer for 2 outputs 12 V DC, mains 220 V AC	FER2512	transformer 220V - 12 V DC 2A
	Optional standard transformer for 2 outputs 24 V DC, mains 220 V AC	FERC974	transformer 220V - 24 V AC 50vA
	Control board x Agronic with transformer	EQEA024	Transformer 230/24 V AC 100 V A x Agronic

Solar panel	Code	Description
Solar panel for control unit supply (12 V DC and Latch)	FER2510	solar panel 5W with support
Solar panel for control unit supply (12 V DC and Latch)	FER2511	solar panel 10W with support
Charge regulator for solar panel including 7 Ah battery	FER2519	solar panel regulator with battery

Battery	Code	Description
Ni/Pb watertight battery, rechargeable (12 V 7 Ah)	FER2513	battery 7 Ah

Communication - Hardware			Description
Local communication via cable	RS485 max 100 mt	FER2518	communication with local pc, port RS485
	USB 2.0 max 3 mt	FER2504	communication with local pc, port USB
	Modem GPRS (SIM)	FER2503	GPRS mobile device communication
Remote communication	Wi-Fi max 50 mt	FER2017	Wi-Fi communication
	RADIO max 2 km	FER2505	PC 433 MHz radio communication

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

