

COMPARISON TABLE

AGRÓNIC 2500 / AGRÓNIC 4000 / AGRÓNIC 5500 / AGRÓNIC 7000

FUNCTION	AGRÓNIC 2500	AGRÓNIC 4000	AGRÓNIC 5500	AGRÓNIC 7000
Models by number of outputs	9, 18 and 27 outputs	16, 24, 32, 48, 64, 80 and 96 outputs	10, 20 and 30 outputs (plus 5 for fertilizers)	40, 56, 72, 88, 104 and 120 outputs (plus 10 for fertilizers)
IRRIGATION				
Irrigation Sectors	Maximum 30	Maximum 99	Maximum 30	Maximum 200
Sectors by program	Up to 4	Up to 10 (with pH, up to 8)	Up to 9	Up to 32
Maximum number of sectors operating simultaneously	8	Unlimited	Unlimited	Unlimited
Programs	50 linkable	35 linkable, with 12 subprograms each	16 linkable, with 9 subprograms each	32 linkable, with 32 subprograms each
Scheduling by Period	<u>Yes</u>	Yes	-	Yes
Types of irrigation starts	Days of the week, schedule, sequential, digital sensor, <u>frequency of days or by conditioning sensors (these with safety time between starts). Several activations separated by a time (pulsed irrigation). Timetable and active period. By APP, Web or SMS</u>	Days of the week, schedule, sequential, digital sensor, frequency of days or by conditioning sensors (these with safety time between starts). Several activations separated by a time (pulsed irrigation). Timetable and active period <u>By APP, Web or SMS</u>	Days of the week, timetables, sequential, frequency of days or by conditioning sensors (these with safety time between starts). Several activations separated by a time (pulsed irrigation). Active schedule. <u>By APP, Web or SMS</u>	Days of the week, timetables, sequential, frequency of days or by conditioning sensors (with safety time between starts). Several activations separated by a time (pulsed irrigation). Timetable and active period. Safety due to lack of start. <u>By APP or SMS, soon Web</u>
Digital Inputs Initials	1 or <u>multiple</u>	8	Multiple	9
Start by external order, active schedule	<u>Yes</u>	Yes	Yes	Yes
Postpone irrigation	<u>Yes, hourly</u>	-	Yes, hourly	-
Irrigation units	Time: <u>mm'ss"</u> - hh:mm Volume: m3 Per Hectare: <u>m3/ha - hh:mm/ha</u>	Time: mm'ss" - hh:mm Volume: liters - m3 Per Hectare: m3/ha	Time: mm'ss" - hh:mm Volume: m3 Per Hectare: m3/ha - hh:mm/ha	Time: mm'ss" - hh:mm Volume: liters - m3
Time Limit on Volume Programming	<u>Yes</u>	-	Yes	-
Water meters	1 or <u>up to 10</u>	4	Up to 10	6
Instant flow control	<u>Yes</u>	Yes	Yes	Yes
Nominal flow in each sector	Yes	Yes	Yes	Yes
Auxiliary irrigation outputs	<u>Yes, as many as sectors</u>	Yes, as many as sectors	Yes, as many as sectors	Yes, as many as sectors
Irrigation groups and priority within the group to perform irrigation	<u>Priority between programs</u>	9 irrigation groups	Priority between programs	9 groups with priority among themselves and priority within each group
Irrigation due to lack of starts or stop due to continuous start	-	-	-	Yes
FERTILIZATION				
Fertilizers	4	8	4 + 1 acid + Phytosanitary	8 + 2 acid
Agitators	4	8	1	8
General and auxiliary outputs	1 general	1 general, 1 auxiliary by fertilizer	1 general	1 general, 1 auxiliary per fertilizer, 2 auxiliaries for acid
Fertilization units	Time: <u>mm'ss"</u> - hh:mm Volume: liters Per Hectare: <u>liters/ha</u>	Time: mm'ss" - hh:mm Volume: centiliters, deciliters, liters Per Hectare: liters/ha	Time: mm'ss" - hh:mm Volume: liters Per Hectare: liters/ha	Time: mm'ss" - hh:mm Volume: centiliters, liters
Types of fertilization	Series, parallel and <u>uniform</u>	Series, parallel, proportional and uniform	By conductivity (EC) and uniform	By conductivity (EC), parallel and proportional
Pre- and post-irrigation	Yes	Yes	Yes	Yes
Cleaning of fertilizer injectors	Yes	8	-	-
Fertilizer counters	4	8	4 + 1	8
Instantaneous flow rate reading	<u>Yes</u>	Yes	Yes	Yes
Fertilization by independent branches	-	Yes	-	2, one by EC and one by units
EC reading and alarm	<u>Yes</u>	Yes	Yes	Yes

Features that are underlined in grey, are optional functions that are not included in the serial kit.

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FUNCTION	AGRÓNIC 2500	AGRÓNIC 4000	AGRÓNIC 5500	AGRÓNIC 7000
pH reading, alarm and regulation	<u>Yes (no regulation)</u>	Yes	Yes	Yes, double or acid and base
Regulation of the EC in relation to the EC of entry	-	-	Yes	Yes
Injection pH and EC by pulses	-	Only pH	Yes	Yes
Injection pH and EC by analog output	-	Only pH	-	<u>Yes</u>
PUMPING				
Motors or general outputs	<u>2 (Possibility of diesel engine and generator)</u>	<u>4 (Possibility of diesel engine and generator)</u>	<u>2 (Possibility of diesel engine and generator)</u>	6
Prevention of water hammer	Yes	Yes	Yes	Yes
Water pressure regulation	-	Yes	-	Yes
Nominal pressure assignation in each sector for pressure regulation	-	Yes	-	Yes (by program)
FILTER CLEANING				
Number of filters	Up to 9 + one general	4 independent groups, with unlimited number of filters	Up to 9 + one general	Unlimited + one general
Activation by differential pressure switch	Yes	Yes	Yes	Yes
Activation by units (time or volume)	Yes	Yes	Yes	Yes
Different time groups	1	2	1	3
Programmable pause between filters	Yes	Yes	Yes	Yes
Stop sectors while cleaning	Yes	Yes	Yes	Yes
Control of continuous cleaning	Yes	Yes	Yes	Yes
Assigning Generals and Counters	Yes	Yes	Yes	Yes
CONDITIONERS				
Conditioners	<u>30 in total</u> , 5 per program for definitive, temporary, conditional stop, program start and/or stop. <u>Diesel oil pressure switch, modification of irrigation and fertilization in relation to sensors (instantaneous, by integration, virtual), end by rain, fertilizer shutdown, warning</u>	4 per program, for definitive, temporary, conditional stop, program start and/or stop. <u>Diesel oil pressure switch, irrigation modification and fertilization in relation to sensors (instantaneous, by integration, ETo, virtual), end by rain, stop</u>	50 in total, 6 per program applicable to irrigation at fertilization or pH, for permanent, temporary, conditional, start and/or stop programs. Modification of irrigation, fertilization, EC or frequency in relation to sensors (instantaneous, by integration, virtual), by error in the regulation of the injection of fertilizer or acid, warning	4 per program, for permanent, temporary, conditional shutdown, start and/or stop of programs. Drainage control. Modification by sensors of the units of irrigation, EC reference, fertilizer units or frequency between irrigation
Curves	-	-	-	Each program has a curve with 6 time points of the day to modify irrigation, frequency, EC or fertilizer units.
MANUAL CONTROL				
Start, stop, out of service or suspend	Yes	Yes	Yes	Yes
Start or stop filter cleaning	Yes	Yes	Yes	Yes
End alarms or malfunctions	Yes	Yes	Yes	Yes
Activation of outputs	Yes	Yes	Yes	Yes
Activation of sectors	Yes	-	Yes	-
Activating Programs	Yes	Yes	Yes	Yes
Irrigation correction and fertilization by manual factor	<u>Yes</u>	Yes	Yes	Yes
DRAINAGE				
No. of drainages	-	-	One per program	9, with reading of drained volume, conductivity, pH and level for automatic irrigation start
Control	-	-	Modifying the irrigation units or the frequency between irrigations	Modifying the irrigation units or the frequency between irrigations
OTHER CONTROLS				
Water mixture	-	-	Yes, from two water sources. Reference in each program.	<u>Yes</u> , from two water sources. Reference in each program
Solar irrigation	<u>Yes. Solar hybrid system - diesel</u>	Yes	Yes. Solar hybrid system - diesel	-
Nebulization	-	-	Up to 4 nebulizations with a maximum of 8 valves per group. Temperature and/or humidity control	-
Pivots direct control	<u>Yes. Up to 4 pivots</u>	-	-	-

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FUNCTION	AGRÓNIC 2500	AGRÓNIC 4000	AGRÓNIC 5500	AGRÓNIC 7000
VISUALIZATION				
LCD screen	6 lines x 20 characters Graphical display	2 lines x 40 characters	6 lines x 20 characters Graphical display	16 lines x 40 characters Graphical display
Keyboard with acoustic indicator	Yes	Yes	Yes	Yes
Access code	Yes	Yes	Yes	Yes
PIN code protection	Yes	Yes	Yes	-
Includes different languages	Yes	Yes	Yes	Yes
Stop button on the front	-	Yes	-	Yes
READINGS				
Free descriptive texts	<u>In programs, sectors, sensors and conditioners</u>	In sensors	In programs, sectors, sensors and conditioners	In programs
Accumulated	Start date of the accumulated. <u>General</u> : time and total volume of irrigation and fertilizers. <u>By sector</u> : time and volume of irrigation and fertilizers. <u>By counter</u> : irrigation volume and leakage.	Start date of the accumulated. <u>General</u> : time and total volume of irrigation and time or volume of fertilizers. <u>By sector</u> : time and volume of irrigation and time or volume of fertilizers.	Start date of the accumulated. <u>General</u> : time and total volume of irrigation and fertilizers. <u>By sector</u> : time and volume of irrigation and fertilizers. <u>By counter</u> : irrigation volume and leakage.	Start date of the accumulated. <u>General</u> : time and total volume of irrigation and time or volume of fertilizers. <u>By sector</u> : time and volume of irrigation and time or volume of fertilizers.
Historical	<u>Daily record. The controller saves between 9 and 30 days. Register in the Agrónic PC every 10' and without limit of days. By sector: time and volume of irrigation and fertilizers. By counter: irrigation volume and leakage. By analogical sensor: average of the day, maximum and minimum value.</u>	Daily record. The controller saves the last 14 days. In the Agrónic PC daily record and without limit of days. <u>General</u> : program starts, filter cleaning, rain, radiation and accumulated temperature. <u>By sector</u> : irrigation time and volume, and fertilizer time or volume. Average EC and pH.	Daily record. The controller saves between 9 and 30 days. Register in the Agrónic PC every 10' and without limit of days. <u>By sector</u> : time and volume of irrigation and fertilizers. At the end of each average EC and pH irrigation. <u>By counter</u> : irrigation volume and leakage. <u>By analogical sensor</u> : average of the day, maximum and minimum value.	Daily record. The controller saves between 9 and 30 days. Register in the Agrónic PC every 10' and without limit of days. <u>General</u> : program starts, filter cleaning, rain, radiation and accumulated temperature. <u>By sector</u> : time and volume of irrigation and fertilizers. <u>By counter</u> : volume and flow in irrigation, volume in fertilizer. <u>By analogical sensor</u> : average of the day, maximum and minimum value. <u>Per tray</u> : EC and pH averages.
Register	<u>Chronological record of 52 types of events for possible review of the programmer's actions</u>	Chronological record of 72 types of events for possible review of the programmer's actions.	Chronological record of 55 types of events for possible review of the programmer's actions.	Chronological record of 54 types of events for possible review of the programmer's actions.
SENSORS				
Digital Sensors	<u>20 configurable functions</u> 6 Inputs in base + <u>5 in relay model. AgroBee-L</u>	48 predefined functions 12 inputs in base. <u>Radio, monocable</u>	16 configurable functions 10 inputs in base. <u>AgroBee-L</u>	47 predefined functions 16 inputs in base, expandable to 32. <u>Radio, monocable</u>
Analog sensors	<u>40 configurable functions</u> 2 inputs in base + <u>expandable to 4 + SDI12. AgroBee-L</u>	40 configurable functions 12 inputs in base. <u>Radio, monocable</u>	40 configurable functions 6 inputs in base, <u>expandable to 12 + SDI12. AgroBee-L</u>	53 predefined functions 16 inputs in base. <u>Radio, monocable</u>
Sensor inputs can be delayed	Yes	Yes	Yes	-
COMMUNICATIONS				
Communication with PC	<u>GPRS, WiFi, Radio link, USB, RS485</u>	<u>GPRS, USB, RS485</u>	<u>GPRS, WiFi, Radio link, USB, RS485</u>	<u>GPRS, USB, RS485</u>
Communication with mobile phone or tablet	<u>GPRS, WiFi</u>	<u>GPRS</u>	<u>GPRS, WiFi</u>	<u>GPRS</u>
External Modules	<u>AgroBee-L</u>	<u>Radio, Monocable, MicroIris, Expansion Module</u>	<u>AgroBee-L</u>	<u>Radio, Monocable, Expansion Module</u>
Communications Ports	<u>1 USB/RS232</u>	<u>2 USB/RS232, 2 RS485, 1 Ethernet</u>	<u>1 USB/RS232</u>	<u>1 USB/RS232, 1 RS485</u>
SMS sending for any programmer event	Yes	Yes	Yes	Yes
Number of users	<u>From 1 to 3</u>	<u>From 1 to 3</u>	<u>From 1 to 3</u>	<u>From 1 to 3</u>
OUTPUTS				
General supply	12 Vdc (220/110 Vac with <u>external power supply and 220/24 Vac transformer</u>)	12 Vdc, 220 Vac, 110 Vac	12 Vdc o 220/110 Vac con alimentador externo	12 Vdc, 220 Vac, 110 Vac
2 and 3-wire latch outputs	By mosfet	By relay	-	-
Alarm output	-	3 by relay	1 by relay	3 by relay
VARIOUS				
Measurement of the supply voltage	Yes	<u>Yes, with Analogue Inputs option</u>	Yes	-
Output power indicator	Yes	-	Yes	-
Plug-in terminals	Yes	Yes	Yes	Yes
Solar charger included	Yes, in latch models	-	-	-

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FORMATS				
Box Format	Yes	Yes	Yes	-
Build-in Format	Yes	Yes	Yes	Yes
MODELS				
220/110 Vac model	Yes (with external supply)	Yes	Yes (with external supply)	Yes
12 Vdc model	Yes	Yes	Yes	Yes
2 or 3 wires latch output model	Yes	Yes	-	-
Double voltage in generators model	Yes	Yes	Yes	Yes
OPTIONS				
Agrónic PC Program	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
Web database	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	-
GPRS link	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
WiFi link	<u>Yes</u>	-	<u>Yes</u>	-
USB link	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
RS 232 link	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
SMS messages	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
AgroBee-L link	<u>Yes</u>	-	<u>Yes</u>	-
Agrónic Radio link	-	<u>Yes</u>	-	<u>Yes</u>
Agrónic Monocable link	-	<u>Yes</u>	-	<u>Yes</u>
RS 485 link	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
Analog inputs	<u>Yes</u>	<u>Yes</u>	Yes + <u>extension</u>	Yes
Digital inputs	Yes + <u>extension</u>	Yes	Yes	Yes + <u>extension</u>
Analog outputs	-	<u>Yes</u>	-	<u>Yes</u>
SDI-12 bus	<u>Yes</u>	-	<u>Yes</u>	-
pH control and EC reading	-	<u>Yes</u>	Yes	Yes
Determining factors	<u>Yes</u>	<u>Yes</u>	Yes	Yes
Radio link	<u>Yes</u>	-	Yes	-
Pivot control	<u>Yes</u>	-	-	-
Diesel engine control	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	-
2 waters mixing	-	-	<u>Yes</u>	<u>Yes</u>
Water pressure regulation	-	<u>Yes</u>	-	<u>Yes</u>
Ports extension	-	<u>Yes</u>	-	-
REMOTE MANAGEMENT				
Agrónic APP	Yes	Yes	Yes	Yes
Agrónic Web	Yes	Yes	Yes	-
Agrónic PC	Yes	Yes	Yes	Yes
SMS messages	Yes	Yes	Yes	Yes

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