

# PRODUCT CATALOGUE 2024







*Edition January 2024*



## This year we bring the 2024 catalogue with these new features:

- New models of expansion modules for the Agrónic 4500 and in different formats from 24 to 99 outputs and with 12 digital inputs included.
- New model of the Agrónic Bit Cab without inputs/outputs and specific to communicate with AgroBee-L modules.
- New AgroBee-L Meteo model to be able to remotely read the sensors of a weather station.
- We expand the family of encapsulated modules of the Monocable system with the MAM 3-32.
- New sensors for data collection in all sensor families (weather, plant, soil and water).
- New Radio control AT-4 that allows transmitting 4-20 mA analog signals.
- New Agrónic APP 2.0 application for the Agrónic 4500.

## Symbols legend

								
Heads	Sectors	Programs	Fertilizers	Mixers	Pumps	Filters	Digital sensors	Analog sensors
								
Meter sensors	Pivots	Spraying	Mixing	Drain trays	Solar irrigation	Remote management	External modules communication	

The products identified with \* in this catalogue are not manufactured by Progrés. Check availability.

# INDEX

---

<b>01</b>	<b>CONVENTIONAL FERTIGATION</b>	Agrónic 2500 ..... page 4
		Agrónic 2500 Pivot control ..... page 6
		Agrónic 4000 ..... page 7
<b>02</b>	<b>CONVENTIONAL AND HYDROPONIC FERTIGATION</b>	Agrónic 4500 ..... page 9
<b>03</b>	<b>HYDROPONIC AND INTENSIVE CROPS</b>	Agrónic 5500 ..... page 12
		Agrónic 7000 ..... page 14
<b>04</b>	<b>SEVERAL APPLICATION</b>	Agrónic Bit Din ..... page 15
		Agrónic Bit Cab ..... page 16
		Agrónic Bit Con ..... page 17
<b>05</b>	<b>SPECIFIC FUNCTIONS</b>	Agrónic Smart ..... page 18
		Agrónic 52 ..... page 19
		Agrónic 54 ..... page 19
		Agrónic Diésel ..... page 19
		Agrónic Filtros ..... page 20
		Irrifiltros ..... page 20
<b>06</b>	<b>EXTERNAL MODULES FOR REMOTE IRRIGATION MANAGEMENT</b>	AgroBee-L ..... page 21
		Agrónic Radio ..... page 23
		Agrónic Monocable ..... page 24
		Lector de Módulos ..... page 24
<b>07</b>	<b>IRRIGATION-CENTRED COMMUNITIES AND LARGE FARMS</b>	Agrónic Net II ..... page 26
<b>08</b>	<b>PARKS AND PUBLIC GARDENS</b>	Monocable system ..... page 26
		Radio system ..... page 27
		GPRS system ..... page 27
<b>09</b>	<b>SENSORS</b>	Weather ..... page 28
		Plant ..... page 29
		Soil ..... page 31
		Water ..... page 32
		Compatibility table ..... page 34
<b>10</b>	<b>TRANSMITTERS</b>	..... page 36
<b>11</b>	<b>COMPLEMENTS</b>	..... page 38
<b>12</b>	<b>REMOTE MANAGEMENT</b>	SMS ..... page 41
		Agrónic PC ..... page 41
		Agrónic APP ..... page 42
		Agrónic APP 2.0 ..... page 42
		VECCA ..... page 43

# 01 CONTROLLERS FOR CONVENTIONAL FERTIGATION

Controller for the control of irrigation and fertilization in crops. It allows to manage sectors, fertilizers, mixers, pumps, filters, alarms, detect malfunctions and create a record of events and accumulated history, working by units of time or volume.

You can modify the start conditions or the irrigation and fertilizer units, using climate or crop sensors.

And you can also remotely run the controller through Agrónic APP, VEGGA or Agrónic PC.

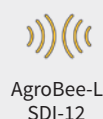
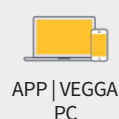
## Agrónic 2500



The Agrónic 2500 has models with 9, 18 and 27 configurable outputs, plus 6 digital inputs, expandable up to 11. With the possibility of adding 6 analog inputs, plus 8 SDI-12 multisensors. The base unit uses 12 Vdc power.

There is the Basic version and the Plus version, with higher benefits. Expandable controller through options and AgroBee-L (up to 20 modules).

In addition, it can carry out solar irrigation, and control pivots from the controller or from the Agrónic APP, VEGGA y Agrónic PC.



Agrónic 2500 box



Agrónic 2500 to build-in

### FORMATS

Format box
Format build-in in Agrónic 2509 and 2518 (9 and 18 outputs)
Format build-in in Agrónic 2527 (27 outputs)

### VERSIONS

Remarks

Basic version	
Plus version	Version required to manage analog sensors. <i>It is activated by a code.</i>

### MODELS

Model	Description	Remarks	Outputs
Agrónic 2509 220/24 Vac		Power supply 200/12 Vdc 2 A and transformer 220/24 Vac 50 VA	9 Outputs
Agrónic 2509 12 Vdc			
Agrónic 2509 latch 2 wires		Includes solar regulator	
Agrónic 2509 latch 3 wires		Includes solar regulator and diodes box	
Agrónic 2509 12 Vdc double voltage		Transformer 220/24 V 50 VA and diesel option included	
Agrónic 2509 12 Vdc with battery charger	To advise in case of power failure 220 Vac	It is necessary to have Plus version and modem option	18 Outputs
Agrónic 2518 220/24 Vac		Power supply 200/12 Vdc 2 A and transformer 220/24 V 50 VA	
Agrónic 2518 12 Vdc			
Agrónic 2518 latch 2 wires		Includes solar regulator	
Agrónic 2518 latch 3 wires		Includes solar regulator and diodes box	
Agrónic 2518 12 Vdc double voltage		Transformer 220/24 V 50 VA and diesel option included	27 Outputs
Agrónic 2518 12 Vdc with battery charger	To advise in case of power failure 220 Vac	It is necessary to have Plus version and modem option	
Agrónic 2527 220/24 Vac		Power supply 200/12 Vdc 2 A and transformer 220/24 V 50 VA	
Agrónic 2527 12 Vdc			
Agrónic 2527 latch 2 wires		Includes solar regulator	
Agrónic 2527 latch 3 wires		Includes solar regulator and diodes box	
Agrónic 2527 12 Vdc double voltage		Transformer 220/24 V 50 VA and diesel option included	27 Outputs
Agrónic 2527 12 Vdc with battery charger	To advise in case of power failure 220 Vac	It is necessary to have Plus version and modem option	








OPTIONS		Description	Remarks
Remote management communication	Cloud "Web database" (Agrónic APP + VEGGA)	License to connect with the Progrés cloud.	Modem or WiFi option required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <b>It is activated by a code.</b>
	Cloud + PC "Agrónic PC program" (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem and WiFi</b> - License to connect up to 3 PCs/Servers or to the cloud. <b>USB, RS485 and Radiolink</b> - License to connect 1 PC / Server.	Includes modem, WiFi, USB, RS485 or Radiolink required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <b>It is activated by a code.</b>
	Modem link / SMS messages	Option to link with Agrónic APP, VEGGA and Agrónic PC by modem, and / or receive SMS messages from the controller.	Includes modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable. It is not compatible with WiFi option.
	WiFi link	Option to link with Agrónic APP, VEGGA and Agrónic PC by WiFi router.	It is not compatible with Modem link / SMS messages. Includes 7dBi directive antenna with six meters of cable and 3dBi omnidirectional antenna.
	USB link	Option to link with Agrónic PC by cable.	Includes three meters of cable.
	Radiolink 433 MHz	Option to link with Agrónic PC by radio.	Necessary to have an Agronic Radiomódem 433 MHz connected to the Agrónic PC program. Check section about Radiomódem 433 MHz.
	RS485 link for PC	Serial port to connect with Agrónic PC with communication box RS485.	It requires a power supply 220/12 Vdc 2 A, and communication box RS485 + USB.
Radio control	AgroBee-L link 868 MHz / 915 MHz / 433MHz	Option to link with AgroBee-L (Lora technology) external modules.	<b>Only valid for controllers with version 3.</b> It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters of cable (ask for price). Version Plus activation required to activate general and read analog sensors.
	AgroBee-L link 868 MHz / 915 MHz / 433MHz + modem	Option to connect with AgroBee-L (LoRa technology) external modules with modem included on the same board.	<b>Only valid for controllers with version 3.</b> Includes deactivated Movistar M2M SIM card and 5dBi quad-band antenna with 3 meters of cable for the modem. And for the AgroBee modem, coordinator, omnidirectional antenna with 10 meters of cable with the option of 15 meters of cable (consult price). Version Plus activation required to activate general and read analog sensors.
Sensors control	RS 485 Modbus link	Serial port to connect with Davis Vantage Pro 2 weather station.	<b>Only valid for controllers with version 3.</b> The "SDI-12 Extension and 4 analog inputs" option is required, and the supporting "Gateway for Davis Vantage Pro."
	2 analog inputs	Connector for 2 analog inputs. For voltage and current measurement (V / mA).	Plus version activated required.
	SDI-12 Extension and 4 analog inputs	Board to incorporate 8 sensors with SDI-12 protocol + 4 analog 4-20mA sensors.	<b>Only valid for controllers with version 3</b> and the Plus version must be activated. See Sensors section to see compatible SDI-12 models.
	5 digital inputs	Connector for 5 digital inputs.	Only for relay models.
Others	Pivot control	Option to control the position, direction of movement, speed, start, stop, etc. up to a maximum of 4 pivots.	Plus version activated required. For more information, see page 6. <b>It is activated by a code.</b>
	Diesel engine control	For the automatic start of a motorpump or generator set.	<b>It is activated by a code.</b>

## EXTENSIONS FOR AGRÓNIC 2500

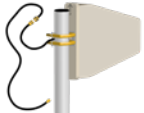





Format box/build-in	9 to 18 outputs
Format box	18 to 27 outputs
Format build-in	18 to 27 outputs

For extensions it will be needed to send the controller to Progrés.

## ACCESSORIES FOR AGRÓNIC 2500

06670501 	06670502 	06140418 	06140216 	06580085 	06140352 	06580098 
Power supply 220/12 V 2 A	Transformer 220/24 V 50 VA	Solar regulator 12V 120W	Rechargeable battery 7 Ah 12 V	Solar panel 5 W 12 V and holder	Rechargeable battery 18 A 12 V	Solar panel 20 W 12 V and holder
Included in model 220/24 Vac (optional)	Included in models 220/24 Vac and double voltage (optional)	Included in latch models. For input voltage equal to or less than 30 V.	Valid for Agrónic 2500 latch without options. Other configurations, to consult.	Valid for Agrónic 2500 latch without options. Other configurations, to consult.	Extension of autonomy	

See more on the next page.

06140273  Quadband GPRS directive antenna 11 dBi (10m cable) Price if it is requested with controller purchase	06750005  4-20 mA Pulsed injection signal transmitter with inverters for 3 signals	06750012  Pulse frequency transmitter	06140258  Gateway for Davis Vantage Pro2 Converter for Meteo Davis station	 Power supply/output protection Check section about protections for more information	 Pressure sensor and flow detection Check section about sensors/water for more information
--	---	--	--	--	---

## REPLACEMENTS FOR AGRÓNIC 2500

In order to streamline our post-sale service to our customers, in the event a controller malfunctions or otherwise experiences a problem, we provide the option of purchasing micro and relay boards for inventory (Please contact us for pricing information).












We'll need the serial number of the controller to be returned once the micro plate has been repositioned, in order to validate its registration.

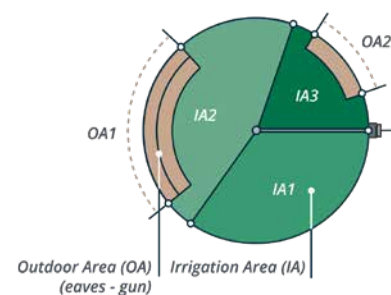
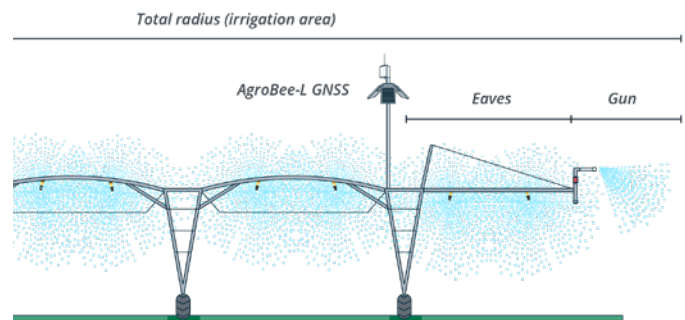
Code	Description	Remarks
06674200	Micro replacement board for Agrónic 2500	Does not include the modem

## Pivot Control option

Option to control the position, direction of movement, speed, start-up, stop, etc. up to a maximum of 4 pivots, both circular and linear. **For the preparation of an offer, it is necessary to contact Progrés's technical/commercial department.**

These are its characteristics:

-  Know the position of the pivot by GPS.
-  Section-off the surface of the pivot with up to 8 configurable areas.
-  Schedule by time or by pass.
-  Adjust rainfall by area.
-  Identify pivot, misalignment, skating, and position alarms.
-  Control physical goals for sectorial pivots.
-  Deactivate the gun and the eaves according to their position.
-  Control diesel engines or solar-powered irrigation.
-  Perform various manual actions such as start, stop, dry passes, etc.
-  Condition irrigation using climate, plant and soil sensors.
-  Manage it remotely through the Agronic APP, VEGGA, Agrónic PC.



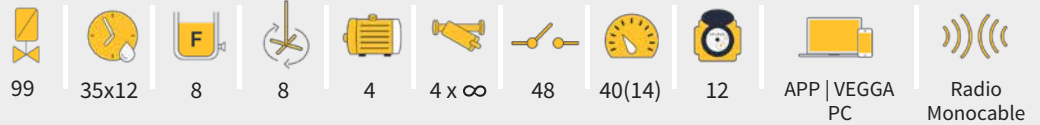
## NECESSARY ITEMS TO ADD TO THE AGRÓNIC 2500

Plus version
Pivot control option
AgroBee-L link 868 MHz / 915 MHz / 433MHz + modem option
Cloud option

Code	SOLUTION ACCESSORIES	Remarks
	AgroBee-L GNSS 15 W (3 x 5 W) module	One per pivot. For irrigation throughout the year and with low solar radiation.
	AgroBee-L GNSS 2SD 1ED 2EA 15 W (3 x 5 W) module	One per pivot. For irrigation throughout the year and with low solar radiation.
06140501	Interface board Agrónic 2500 circular pivot 15 relays	
06140502	Interface board Agrónic 2500 sectorial pivot 17 relays	
06140503	Radio-control interface board circular pivot 15 relays	Radio control is needed
06140504	Radio-control interface board sectorial pivot 17 relays	Radio control is needed
06140505	Relay expansion 24 Vac	Price by unit.
06140506	Relay expansion 110 Vac	Price by unit.
	Radio control 6i-6o	See the complements section for more information.



# Agrónic 4000



The Agrónic 4000 has models with 16, 24, 32, 48, 64, 80 and 96 configurable outputs, plus 12 digital sensors.

Its extension of digital outputs and analog inputs in auxiliary boards to the controller and Agrónic Monocable or Agrónic Radio systems is available. Digital inputs only in Agrónic Monocable or Agrónic Radio system.



Agrónic 4000 box



Agrónic 4000 to build-in

## FORMATS

Format box

Format build-in in Agrónic 4000 from 16 to 32 outputs

Format build-in in Agrónic 4000 from 48 to 96 outputs

## MODELS

Agrónic 4016 220 Vac	16 Outputs
Agrónic 4016 12 Vdc	
Agrónic 4016 12 Vdc latch 2 wires	
Agrónic 4016 12 Vdc latch 3 wires (Includes diodes box)	24 Outputs
Agrónic 4024 220 Vac	
Agrónic 4024 12 Vdc	
Agrónic 4024 12 Vdc latch 2 wires	32 Outputs
Agrónic 4024 12 Vdc latch 3 wires (Includes diodes box)	
Agrónic 4032 220 Vac	
Agrónic 4032 12 Vdc	48 Outputs
Agrónic 4032 12 Vdc latch 2 wires	
Agrónic 4032 12 Vdc latch 3 wires (Includes diodes box)	
Agrónic 4048 220 Vac	48 Outputs
Agrónic 4048 12 Vdc	
Agrónic 4048 12 Vdc latch 2 wires	
Agrónic 4048 12 Vdc latch 3 wires (Includes diodes box)	

## MODELS

Agrónic 4064 220 Vac	64 Outputs
Agrónic 4064 12 Vdc	
Agrónic 4064 12 Vdc latch 2 wires	
Agrónic 4064 12 Vdc latch 3 wires (Includes diodes box)	80 Outputs
Agrónic 4080 220 Vac	
Agrónic 4080 12 Vdc	
Agrónic 4080 12 Vdc latch 2 wires	96 Outputs
Agrónic 4080 12 Vdc latch 3 wires (Includes diodes box)	
Agrónic 4096 220 Vac	
Agrónic 4096 12 Vdc	
Agrónic 4096 12 Vdc latch 2 wires	
Agrónic 4096 12 Vdc latch 3 wires (Includes diodes box)	

## OPTIONS

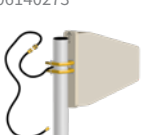



	Description	Remarks
Remote management communication	<b>Cloud</b> "Web database" (Agrónic APP + VEGGA)	License to connect with the Progrés cloud. Modem option required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <i>It is activated by a code.</i>
	<b>Cloud + PC</b> "Agrónic PC Program" (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem</b> - License to connect up to 3 PCs/ Servers or to the cloud. Modem option, USB, RS232, RS485 or Radiomódem required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <i>It is activated by a code.</i>
	<b>Agrónic PC Program with allowance</b>	Option to update the Agrónic PC software from version 1 or 2 to version 3. To work with modem, it is necessary to have the modem link option.
	<b>Modem link / SMS messages</b>	Option to link with Agrónic APP, VEGGA and Agrónic PC by modem and / or receive SMS messages from the controller. Includes modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable.
	<b>USB link</b>	Option to link with Agrónic PC by cable. It is not compatible with modem link. If you want to work with modem you will need the port extension option. Includes three meters of cable.
	<b>RS232 link</b>	Serial port to connect with Agrónic Monocable, Agrónic Radio and Agrónic PC by cable or GSM modem.

OPTIONS		Description	Remarks
External modules control	RS485 link	Serial port to connect with Agrónic Monocable, Agrónic Radio and Agrónic PC by communication box RS485 + USB.	
	Agrónic Radio	Option to link with Agrónic Radio external modules.	Option RS link required, normally RS485 and EAR / Modules. <i>It is activated by a code.</i>
	Agrónic Monocable	Option to link with Agrónic Monocable external modules.	Option RS link required, normally RS485 and EAM / Modules. <i>It is activated by a code.</i>
Sensor control	Analog inputs / outputs	Card with 6 analog inputs and 5 analog/pulsed outputs 4-20 mA.	
	Second analog inputs / outputs card	Card with 6 analog inputs and 5 analog/pulsed outputs 4-20 mA.	<b>Not available for latch models.</b>
	pH control and EC reading		Analog inputs / outputs option, transmitter and sensors are required. <i>It is activated by a code.</i>
Others	Double voltage generator set on 12 Vdc	Option for starting the generator set and electropump.	<b>If it is added a posteriori, it will be needed to send the controller to Progrés.</b>
	Diesel engine control	Option for the automatic start of a motorpump or generator set.	<i>It is activated by a code.</i>
	Water pressure regulation	It allows regulating pressures for each sector.	Analog inputs / outputs option and a pressure sensor required. <i>It is activated by a code.</i>
	Determining factors	Option to condition action in the programs, mainly with the use of sensors.	Analog inputs / outputs option, Agrónic Radio or Agrónic Monocable required. <i>It is activated by a code.</i>
	RS232 and RS485 ports extension		
	USB and RS485 ports extension		
	Update the controller from version 1 o 2 to version 3	Option to update the software of the controller from version 1 or 2 to version 3.	

### EXTENSIONS FOR AGRÓNIC 4000 v2 y v3

Format box/build-in	16 to 24 outputs ( it will be needed to send the controller to Progrés)
Format box/build-in	24 to 32 outputs
Format box	32 to 48 outputs expansion board
Format build-in	32 to 48 outputs expansion board
Format box/build-in	16 outputs expansion board (from 48 outputs)

### ACCESSORIES FOR AGRÓNIC 4000

06140273 	06140258 		
Quadband GPRS directive antenna 11 dBi (10m cable) Price if it is requested with controller purchase	Gateway for Davis Vantage Pro2 Converter for Meteo Davis station	Power supply / output protection Check section about protections for more information	Pressure sensor and flow detection Check section about sensors/water for more information

### REPLACEMENTS FOR AGRÓNIC 4000

In order to streamline our post-sale service to our customers, in the event a controller malfunctions or otherwise experiences a problem, we provide the option of purchasing micro and relay boards for inventory.

We'll need the serial number of the controller to be returned once the micro board has been repositioned, in order to validate its registration.

Please contact us for pricing information.



# 02 CONTROLLER FOR CONVENTIONAL AND HYDROPONIC FERTIGATION

The ideal unit for agricultural farms with high production demands with a variety of crops, given its great capacity in terms of number of sectors, field modules, remote control systems and adaptation to different irrigation, fertilization, monitoring and management systems.

It has solutions for the most modern irrigation techniques with solar pumping and energy optimization, irrigation with pivots and the most complete range of "fertigation" methods, including hydroponic crops and those with the highest demands.

## Agrónic 4500



The Agrónic 4500 is a multi-head controller that has models with 24, 40, 56, 72, 88 and 104 configurable outputs, plus 12 digital sensors.

Expansion of digital and analog inputs and outputs is available through auxiliary boards and Agrónic Monocable systems, Agrónic Radio, AgroBee-L and expansion modules.

### IMPORTANT NOTES:

- Remote management through Agrónic APP 2.0 available during the first quarter.



Agrónic 4500 box



Agrónic 4500 to build-in

### FORMATS

Box format
Built-in format in Agrónic 4500 from 24 to 40 outputs
Built-in format in Agrónic 4500 from 56 to 104 outputs

### VERSIONS

Remarks

Basic version	
Plus version	<i>To expand the unit's features. It is activated by code.</i>

### FUNCTIONS

Remarks

Pívots <sup>(1)</sup>	To control pivots and coverages
Solar <sup>(1)</sup>	For hybrid solar irrigation
Hydro	For hydroponic crops

<sup>(1)</sup>Functions only available with the PLUS version.

FRONTS	Description	Remarks
Agrónic 4500 for base Agrónic 4000 box with modem.	Possibility of having the features of the Agrónic 4500 Basic version, replacing the keyboard and micro board of the Agrónic 4000.	Includes 4G modem. <b>Only valid for units with the 55-xxxx series.</b>
Agrónic 4500 for base Agrónic 4000 built-in with modem	Possibility of having the features of the Agrónic 4500 Basic version, replacing the keyboard and micro board of the Agrónic 4000.	Includes 4G modem. Only valid for units with the 55-xxxx series.
Agrónic 4500 for base Agrónic 4000 box with WiFi	Possibility of having the features of the Agrónic 4500 Basic version, replacing the keyboard and micro board of the Agrónic 4000.	Includes WiFi modem. <b>Only valid for units with the 55-xxxx series.</b>
Agrónic 4500 for base Agrónic 4000 built-in with WiFi	Possibility of having the features of the Agrónic 4500 Basic version, replacing the keyboard and micro board of the Agrónic 4000.	Includes WiFi modem. Only valid for units with the 55-xxxx series.
Agrónic 4500 for base Agrónic 7000 built-in with modem	Possibility of having the features of the Agrónic 4500, replacing the keyboard and micro board of the Agrónic 7000.	<b>Includes 4G modem.</b>
Agrónic 4500 for base Agrónic 7000 built-in with WiFi	Possibility of having the features of the Agrónic 4500, replacing the keyboard and micro board of the Agrónic 7000.	Includes WiFi modem.

**IMPORTANT NOTE:** Promotion valid only if the keyboard and the micro plate of the Agrónic 4000/7000 are returned. Otherwise, within 3 months, the PVP price of the front will be invoiced, without applying the usual discount.

**OBSERVATIONS:** Take into account that this change entails totally erasing the unit and configuring all parameters once again. The code-activated software options already available will remain effective on the unit.

MODELS	Remarks	
Agrónic 4500-24 220 Vac	Includes 220/12 Vdc 3A power supply	24
Agrónic 4500-24 12 Vdc		
Agrónic 4500-40 220 Vac	Includes 220/12 Vdc 3A power supply	40
Agrónic 4500-40 12 Vdc		
Agrónic 4500-56 220 Vac	Includes 220/12 Vdc 3A power supply	56
Agrónic 4500-56 12 Vdc		
Agrónic 4500-72 220 Vac	Includes 220/12 Vdc 3A power supply	72
Agrónic 4500-72 12 Vdc		
Agrónic 4500-88 220 Vac	Includes 220/12 Vdc 3A power supply	88
Agrónic 4500-88 12 Vdc		
Agrónic 4500-104 220 Vac	Includes 220/12 Vdc 3A power supply	104
Agrónic 4500-104 12 Vdc		

outputs outputs outputs outputs outputs

OUTPUT MODELS	Description	Remarks
Two-wire latch outputs		If it is added later, the controller must be sent to Progrés.
Three-wire latch outputs		Diode boxes according to the number of outputs are needed. Please ask for a price. If it is added later, the controller must be sent to Progrés.
Dual voltage	To operate with dual voltage when there is a generator set and electric pump.	If it is added later, the controller must be sent to Progrés.

OPTIONS	Description	Remarks
Remote management communication	<b>Cloud</b> "Web database" (Agrónic APP + VEGGA)	License to connect with the VEGGA cloud.  Modem or WiFi option required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <b>It is activated by a code.</b>
	<b>Cloud + PC</b> "Agrónic PC program" (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem and WiFi</b> - License to connect up to 3 PCs/Servers or to the cloud.  <b>USB, RS485 and Radiolink</b> - License to connect 1 PC / Server.  4G modem, WiFi, USB, RS485 or Radiolink required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <b>It is activated by a code.</b>
	<b>Modem link</b>	Option to link with Agrónic PC, Agrónic APP or VEGGA by modem, and / or receive SMS messages from the controller.  Includes 4G modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable.
	<b>WiFi link</b>	Option to link with Agrónic APP, VEGGA and Agrónic PC by WiFi router.  It is not compatible with Modem link. Includes 7dBi directive antenna with six meters of cable and 3dBi omnidirectional antenna.
	<b>USB link</b>	Option to link with Agrónic PC by cable.  Includes three meters of cable.
	<b>RS485 link for PC</b>	Serial port to connect with Agrónic PC with communication box RS485.  It requires a power supply 220/12 Vdc 2 A, and communication box RS485 + USB.
Control external modules	<b>AgroBee-L1/2 link 868 MHz / 915 MHz</b>	Option to link with AgroBee-L (Lora technology) external modules. Available for 1 or 2 coordinators  It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters of cable (ask for price). Unit price for each coordinator
	<b>AgroBee-L1/2 link 433 MHz</b>	Option to link with AgroBee-L (Lora technology) external modules. Available for 1 or 2 coordinators  It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters of cable (ask for price). Unit price for each coordinator
	<b>RS 485 ME link</b>	Serial port to connect with expansion modules (15).
	<b>RS 485 Modbus link</b>	Serial port to connect with Radio (2) and Monocable (2) systems and other external modules with Modbus protocol (32).  Plus version activated required to connect external Modbus modules.
	<b>Agrónic Radio 433 MHz</b>	Option to link with Agrónic Radio external modules.  Option RS link required, normally RS485 and EAR / Radio Modules. <b>It is activated by a code.</b>
<b>Agrónic Monocable</b>	Option to link with Agrónic Monocable external modules.  Option RS link required, normally RS485 and EAM / Monocable Modules. <b>It is activated by a code.</b>	
Control sensors	<b>Analog inputs / outputs</b>	Card with 6 analog inputs (5 of 4-20 mA and 1 of 0-20 V) and 5 analog/pulsed outputs 4-20 mA.
	<b>Second analog inputs / outputs card</b>	Card with 6 analog inputs (5 of 4-20 mA and 1 of 0-20 V) and 5 analog/pulsed outputs 4-20 mA.

EXPANSION MODULES	Description	Remarks
Expansion module 1 Din Rail format 8S 4ED 4EA	8 outputs, 4 digital inputs and 4 analog inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>
Expansión module 2 format 24S 12ED	24 outputs and 12 digital inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>
Expansión module 2 format 40S 12ED	40 outputs and 12 digital inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>
Expansión module 2 format 56S 12ED	56 outputs and 12 digital inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>
Expansión module 2 format 72S 12ED	72 outputs and 12 digital inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>
Expansión module 2 format 88S 12ED	88 outputs and 12 digital inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>
Expansión module 2 format 104S <sup>(2)</sup> 12ED	99 outputs and 12 digital inputs.	Expandable with 2 analog I/O boards. <sup>(1)</sup>


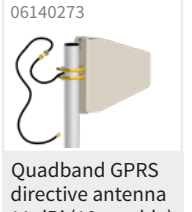


<sup>(1)</sup> It is necessary to have the 'RS 485 ME Link' option installed.

<sup>(2)</sup> Only 99 of 104 outputs can be used in this model.

EXTENSIONS FOR AGRÓNIC 4500	
Built-in/box format	From 24 to 40 outputs
Box format	From 40 to 56 outputs
Built-in format	From 40 to 56 outputs
Box/built-in format	From 56 to 72 outputs
Box/built-in format	From 72 to 88 outputs
Box/built-in format	From 88 to 104 outputs

**For extensions it is NOT necessary to send the controller to Progrés.**

## ACCESSORIES FOR AGRÓNIC 4500

 <p>06742421</p> <p>Power supply 220/12 V 3 A</p> <p>Included in model 220/24 Vac (optional)</p>	 <p>06140418</p> <p>Solar regulator 12V 120W</p> <p>For input voltage equal to or less than 30 V.</p>	 <p>06140273</p> <p>Quadband GPRS directive antenna 11 dBi (10m cable)</p> <p>Price if it is requested with controller purchase</p>	 <p>06140258</p> <p>Gateway for Davis Vantage Pro2</p> <p>Converter for Meteo Davis station</p>	 <p>06140185</p> <p>Voltage / current converter transmitter</p>
 <p>Power supply / output protection</p> <p>Check section about protections for more information</p>	 <p>Pressure sensor and flow detection</p> <p>Check section about sensors/water for more information</p>	 <p>pH and EC transmitters</p> <p>Check section about transmitters for more information</p>	 <p>pH and EC sensors</p> <p>Check section about sensors for more information</p>	

## REPLACEMENTS FOR AGRÓNIC 4500

In order to streamline our post-sale service to our customers, in the event a controller malfunctions or otherwise experiences a problem, we provide the option of purchasing micro and relay boards for inventory (Please contact us for pricing information).

We'll need the serial number of the controller to be returned once the micro board has been repositioned, in order to validate its registration.

Code	Description	Remarks
06744200	Replacement micro board for Agrónic 4500	Does not include modem
06744600	Replacement modem board for Agrónic 4500	

# 03 CONTROLLERS FOR THE CONTROL OF HYDROPONIC AND INTENSIVE CROPS

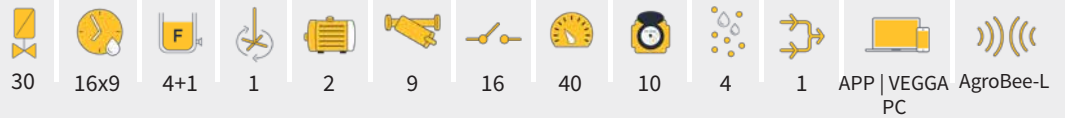
Controller for the control of irrigation and fertilization by regulation of pH and EC or by time and volume.

You can manage sectors, fertilizers, mixers, pumps, filters, regulate the pH an CE, nebulization, irrigation by drainage trays, detect malfunctions, create a record of events and accumulated history, as well as make a

reading of sensors and condition programs through them, and with the mixture of two waters you may obtain a specific EC.

And you can also run the controller remotely through Agrónic APP, VEGGA and Agrónic PC.

## Agrónic 5500



The Agrónic 5500 has models with 10, 20 and 30 outputs, plus 4 pulse outputs for EC injection and 1 acid or base. It has 10 digital inputs and 6 analog inputs expandable to 16 and 8 SDI-12 sensors.

You can control the temperature and humidity through nebulizations. It manages the solar irrigation. It allows applying phytosanitary treatments in each irrigation program.

Radio connection to AgroBee-L modules (up to 20 modules) that allow to have valves, meters and analog and digital sensors at a distance.



Agrónic 5500 box



Agrónic 5500 to build-in

### FORMATS

- Format box
- Format to build-in

### MODELS

Agrónic 5510 220 V	10 Out.
Agrónic 5510 12 V	
Agrónic 5520 220 V	20 Out.
Agrónic 5520 12 V	
Agrónic 5530 220 V	30 Out.
Agrónic 5530 12 V	

OPTIONS	Description	Remarks
Remote management communication	<b>Cloud</b> "Web database" (Agrónic APP + VEGGA)	License to connect with the Progrés cloud. Modem or WiFi option required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <b>It is activated by a code.</b>
	<b>Cloud + PC</b> "Agrónic PC Program" (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem and WiFi</b> - License to connect up to 3 PCs/Servers or to the cloud. <b>USB, RS485 and Radiolink</b> - License to connect 1 PC / Server. Modem option, WiFi, USB, RS485 or Radiolink required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. <b>It is activated by a code.</b>
	<b>Modem link / SMS messages</b>	Option to link with Agrónic PC, Agrónic APP or VEGGA by modem, and / or receive SMS messages from the controller. Includes modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable. It is not compatible with WiFi option.
	<b>WiFi link</b>	Option to link with Agrónic APP, VEGGA and Agrónic PC by WiFi router. It is not compatible with Modem link / SMS messages. Includes 7dBi directive antenna with six meters of cable and 3dBi omnidirectional antenna.
	<b>USB link</b>	Option to link with Agrónic PC by cable. Includes three meters of cable.
	<b>Radiolink 433 MHz</b>	Option to link with Agrónic PC by radio. Necessary to have an Agronic Radiomódem 433 MHz connected to the Agrónic PC program. Check section about Radiomódem 433 MHz.
	<b>RS485 link for PC</b>	Serial port to connect with Agrónic PC with communication box RS485. It requires a power supply 220/12 Vdc 2A, and communication box RS485 + USB.

OPTIONS		Description	Remarks
Radio control	AgroBee-L link 868 MHz / 915 MHz / 433MHz	Option to link with AgroBee-L (Lora technology) external modules.	<b>Only valid for controllers with version 1.</b> It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters of cable (ask for price).
	AgroBee-L link 868 MHz / 915 MHz / 433MHz + modem + Cloud	Option to connect with AgroBee-L (LoRa technology) external modules with modem included on the same board.	<b>Only valid for controllers with version 1.</b> Includes deactivated Movistar M2M SIM card and 5dBi quad-band antenna with 3 meters of cable for the modem. And for the AgroBee-L modem, coordinator, omnidirectional antenna with 10 meters of cable with the option of 15 meters of cable (consult price).
Sensor control	RS 485 Modbus link	Serial port to connect with Davis Vantage Pro 2 weather station.	<b>Only valid for controllers with version 1.</b> The “SDI-12 Extension and 4 analog inputs” option is required, and the supporting “Gateway for Davis Vantage Pro.”
	6 analog inputs extension	Option to expand the analog inputs.	
	SDI-12 Extension and 4 analog inputs	Board to incorporate 8 sensors with SDI-12 protocol + 4 analog 4-20mA sensors.	See Sensors section to see compatible SDI-12 models.
Engine	Double voltage generator set on 12 Vdc	Option for starting the generator set and electropump.	Control diesel engine option is included. Compatible only with the Agrónic 5520 model (20 outputs). <b>If it is added a posteriori, it will be needed to send the controller to Progrés.</b>
	Control diesel engine	Option for the automatic start of a motorpump or generator set.	<i>It is activated by a code.</i>
	2 waters mixing	Option to control the EC of the inlet water.	<i>It is activated by a code.</i>

## EXTENSIONS FOR AGRÓNIC 5500

Format box/build-in	From 10 to 20 outputs expansion board
Format box	From 20 to 30 outputs expansion board
Format build-in	From 20 to 30 outputs expansion board

## ACCESSORIES FOR AGRÓNIC 5500

06750005 	06140273 	06140258 				
4-20 mA Pulsed injection signal transmitter with inverters for 3 signals	Quadband GPRS directive antenna 11 dBi (10m cable) Price if it is requested with controller purchase	Gateway for Davis Vantage Pro2 Converter for Meteo Davis station	pH and EC transmitters Check section about transmitters for more information	pH and EC sensors Check section about sensors for more information	Power supply / output protection Check section about protections for more information	Pressure sensor and flow detection Check section about sensors/water for more information

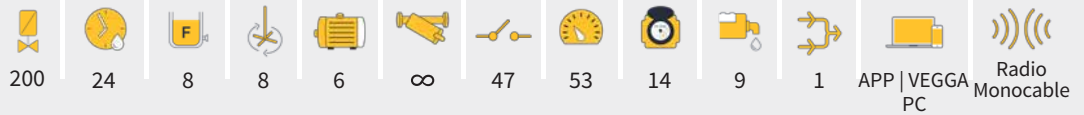
## REPLACEMENTS FOR AGRÓNIC 5500

In order to streamline our post-sale service to our customers, in the event a controller malfunctions or otherwise experiences a problem, we provide the option of purchasing micro and relay boards for inventory (Please contact us for pricing information).

We'll need the serial number of the controller to be returned once the micro plate has been repositioned, in order to validate its registration.

Code	Description	Remarks
06714200	Micro replacement board for Agrónic 5500	Does not include the modem

# Agrónic 7000



The Agrónic 7000 has a basic model with 40 independent outputs plus 16 inputs for expandable digital signals and 16 analog inputs, and 8 pulsed outputs for EC injection and 2 for acid and base.

Automatic control of the quantity of drained water in the crops. Optionally, control of pressure by program. Possibility of valves and sensors management through Agrónic Monocable and Agrónic Radio systems.



Agrónic 7000 to build-in

## MODELS

Agrónic 7000 220 Vac, 12 Vdc or double voltage

OPTIONS	Description	Remarks
Remote management communication	<b>Cloud + PC</b> "Agrónic PC Program" (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem</b> - License to connect 1 PC / Server to the cloud. <b>USB, RS232 and R485</b> - License to connect 1 PC / Server to the computer. <i>It is activated by a code.</i>
	<b>Agrónic PC Program with allowance</b>	Option to update the Agrónic PC software from version 2 to version 3. <i>It is activated by a code.</i>
	<b>Modem link / SMS messages</b>	Option to link with Agrónic APP, VEGGA and Agrónic PC by modem and / or receive SMS messages from the controller. Includes modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable. Only valid for version 4.33 or higher.
	<b>USB link</b>	Option to link with Agrónic PC by cable. It is not compatible with modem link. Includes three meters of cable.
	<b>RS 232 link</b>	Serial port to connect with Agrónic Monocable, Agrónic Radio and Agrónic PC.
External modules control	<b>RS 485 link</b>	Serial port to connect with Agrónic Monocable, Agrónic Radio and Agrónic PC by communication box RS485 + USB.
	<b>Agrónic Radio</b>	Option to link with Agrónic Radio external modules. Option RS link required, normally RS485. <i>It is activated by a code.</i>
	<b>Agrónic Monocable</b>	Option to link with Agrónic Monocable external modules. Option RS link required, normally RS485. <i>It is activated by a code.</i>
Engine	<b>2 waters mixing</b>	Option to control the EC of the inlet water. <i>It is activated by a code.</i>
	<b>Water pressure regulation</b>	12 analog outputs option required. <i>It is activated by a code.</i>

## EXTENSIONS

EXTENSIONS	Remarks
16 relay outputs expansion board	Up to 5 extension boards.
12 analog outputs expansion board 0-10 V	
16 digital inputs expansion board	

For extensions it will be needed to send the controller to Progrés.

## ACCESSORIES FOR AGRÓNIC 7000

 <p>06140273</p> <p>Quadband GPRS directive antenna 11 dBi (10m cable)</p> <p>Price if it is requested with controller purchase</p>	 <p>06140185</p> <p>Voltage / current converter transmitter</p>	 <p>pH and EC transmitters</p> <p>Check section about transmitters for more information</p>	 <p>pH and EC sensors</p> <p>Check section about sensors for more information</p>	 <p>Power supply / output protection</p> <p>Check section about protections for more information</p>	 <p>Pressure sensor and flow detection</p> <p>Check section about sensors/water for more information</p>
--	--	--	--	--	---

## REPLACEMENTS FOR AGRÓNIC 7000

In order to streamline our post-sale service to our customers, in the event a controller malfunctions or otherwise experiences a problem, we provide the option of purchasing micro and relay boards for inventory.

We'll need the serial number of the controller to be returned once the micro board has been repositioned, in order to validate its registration.

Please contact us for pricing information.



# 04 CONTROLLERS FOR SEVERAL APPLICATIONS

Suitable controllers for irrigation sectorization of small farms, especially in sprinkler irrigation.

To manage multi-plots, using different communication options and external modules.

As a Datalogger to record the climatic and agronomic sensors.

In mobile installations associated with leases or rotating crops.

In irrigation communities to jointly remote hydrants and sectors inside the plot.

For centralized management of irrigation in parks and gardens.

As an automaton or control PLC for multiple applications in hydraulic networks and for water treatment and filter system processes.

To manage water meters in urban water supply networks.

## Agrónic Bit



The Agrónic Bit is a multifunctional water management controller, configurable, versatile and expandable with low power consumption.

It can manage irrigation, fertilization, control generals or hydrants in irrigation communities, use sensors of all kinds to interact with fertigation, perform full Datalogger and historical records to ensure traceability of irrigation sectors, meters and sensors.

There are 3 models, Agrónic Bit Din, Agrónic Bit Cab, and Agrónic Bit Con. Two versions, the basic one and the Net one, for the irrigation communities management. The outputs are latch, except in the Agrónic Bit Din 4r model. They include Li-Ion rechargeable battery and charger.

It provides radio links with “RDM” routing between equipments, USB links, modem or WiFi. For Bit Din models it can incorporate up to 16 AgroBee radio modules, and for Bit Con and Bit Cab models 20 AgroBee-L modules with different functionalities: meter inputs, analog sensors reading, etc.

A 5W solar panel or 12Vdc power supply is required to power the basic controller. For controller with communication options installed (Modem, WiFi or AgroBee) or when more than 8 days autonomy are needed, a 20W solar panel with charge regulator and 7Ah battery or 12Vdc power supply is required.

VERSIONS	Remarks
Basic version	
Net version	For Agrónic Net II, management of hydrants and plots irrigation.



## Agrónic Bit Din (controller with keyboard and screen)

Agrónic Bit Din format, with DIN-rail box, for internal connections with terminals.

MODELS	A	
Agrónic Bit Din 8-63	8 2-wires latch outputs (4 3-wires), 6 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	Latch outputs
Agrónic Bit Din 14-123	14 2-wires latch outputs (7 3-wires), 12 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 20-183	20 2-wires latch outputs (10 3-wires), 18 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 26-243	26 2-wires latch outputs (13 3-wires), 24 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 8-27	8 2-wires latch outputs (4 3-wires), 2 digital input, 7 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	Latch outputs
Agrónic Bit Din 14-87	14 2-wires latch outputs (7 3-wires), 8 digital input, 7 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 20-147	20 2-wires latch outputs (10 3-wires), 14 digital input, 7 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 26-207	26 2-wires latch outputs (13 3-wires), 20 digital input, 7 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	Latch outputs
Agrónic Bit Din 4r-63	4 relay outputs, 6 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 4r6-123	4 relay outputs, 6-2wires latch outputs (3 3-wires), 12 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 4r12-183	4 relay outputs, 12-2wires latch outputs (6 3-wires), 18 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	
Agrónic Bit Din 4r18-243	4 relay outputs, 18-2wires latch outputs (9 3-wires), 24 digital input, 3 analog inputs (2: 4-20 mA, 1: 4-20 mA/0-20 V)	

OPTIONS		Description	Remarks
Remote management communication	<b>Cloud</b> "Web database" (Agrónic APP + VEGGA)	License to connect with the Progrés cloud.	Modem or WiFi option required. To use the Agrónic APP o VEGGA you must register the controllers in the cloud and pay an annual fee. Not available for Net Version. <i>It is activated by a code.</i>
	<b>Cloud + PC</b> "Agrónic PC Program" (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem and WiFi</b> - License to connect up to 3 PCs/Servers or to the cloud. <b>USB and Radiolink</b> - License to connect 1 PC / Server to the computer.	Modem option, WiFi, USB, or Radiolink required. To use the Agrónic APP o VEGGA you must register the controllers in the cloud and pay an annual fee. <i>It is activated by a code.</i>
	<b>Modem link / SMS messages Din</b>	Option to link with Agrónic APP, VEGGA and Agrónic PC by modem, and / or receive SMS messages from the controller.	Includes modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable. It is not compatible with WiFi neither radiolink option.
	<b>WiFi link Din</b>	Option to link with Agrónic PC, Agrónic APP or VEGGA by WiFi router.	It is not compatible with Modem link / SMS messages, neither Radiolink. Includes 7dBi directive antenna with six meters of cable and 3dBi omnidirectional antenna.
	<b>USB link Din</b>	Option to link with Agrónic PC by cable.	Includes three meters of cable.
	<b>Radiolink 433 MHz Din</b>	Option to link with Agrónic PC by radio.	Necessary to have an Agronic Radiomódem 433 MHz connected to the Agrónic PC program. Check section about Radiomódem 433 MHz. It is not compatible with link option, neither WiFi link option.
Others Radio control	<b>AgroBee link 868 MHz / 915 MHz Din</b>	Option to link with AgroBee external modules.	It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters (ask for price).
	<b>Determining factors</b>	Option to modify irrigation and fertilizer values, fertilizer stop or end due to rain.	<i>It is activated by a code.</i>

EXTENSIONS		Remarks
<b>1st extension card of 6 inputs and 6 digital outputs for Agrónic Bit Din</b>		
<b>2nd extension card of 6 inputs and 6 digital outputs for Agrónic Bit Din</b>		It is necessary to have the first card
<b>3rd extension card of 6 inputs and 6 digital outputs for Agrónic Bit Din</b>		It is necessary to have the first and the second card
<b>Extension card from 3 to 7 analog inputs</b>		It is necessary to send the controller to Progrés



## Agrónic Bit Cab (controller without keyboard neither screen)

Agrónic Bit Cab format with multi-color cable with color code.

MODELS	Remarks
Agrónic Bit Cab módem + SMS + AgroBee-L 868 MHz / 915 MHz / 433 MHz	Controller without inputs and outputs and with AgroBee-L option + modem included.
Agrónic Bit Cab 3-82 módem + SMS messages	3 2/3-wires <sup>(1)</sup> latch outputs, 8 digital input, 2 analog inputs (2: 4-20 mA). Inputs and outputs by cable, <b>without connectors</b> . Includes modem.
Agrónic Bit Cab 3-88 módem + SMS messages	3 2/3-wires <sup>(1)</sup> latch outputs, 8 digital input, 8 analog inputs (8: 4-20 mA). Inputs and outputs by cable, <b>without connectors</b> . Includes modem.
Agrónic Bit Cab 8-82 módem + SMS messages	8 2/3-wires <sup>(1)</sup> latch outputs, 8 digital input, 2 analog inputs (2: 4-20 mA). Inputs and outputs by cable, <b>without connectors</b> . Includes modem.
Agrónic Bit Cab 9-22 módem + SMS messages	9 2/3-wires <sup>(1)</sup> latch outputs, 2 digital input, 2 analog inputs (2: 4-20 mA). Inputs and outputs by cable, <b>without connectors</b> . Includes modem.
Agrónic Bit Cab 18-22 módem + SMS messages	18 2/3-wires <sup>(1)</sup> latch outputs, 2 digital input, 2 analog inputs (2: 4-20 mA). Inputs and outputs by cable, <b>without connectors</b> . Includes modem.

<sup>(1)</sup>In case of latch 3-wires, it is needed diodes box. Consult the Accessories section for more information. For extensions it will be needed to send the controller to Progrés.

OPTIONS		Description	Remarks
Remote management communication	<b>Cloud</b> "Web database" (Agrónic APP + VEGGA)	License to connect with the Progrés cloud.	To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. Not available for Net Version. <i>It is activated by a code.</i>
	<b>Cloud + PC</b> "Agrónic PC Program" (Agrónic APP + VEGGA + Agrónic PC)	License to connect up to 3 PCs/Servers or to the cloud.	To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. Not available for Net Version. <i>It is activated by a code.</i>
Radio	<b>AgroBee-L link 868 MHz / 915 MHz / 433MHz Cab</b>	Option to link with AgroBee-L (Lora technology) external modules.	It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters of cable (ask for price). It is not compatible with Radiolink option.
Others	<b>Determining factors</b>	Option to modify irrigation and fertilizer values, fertilizer stop or end due to rain.	<i>It is activated by a code.</i>
	<b>External connector for Bit reader</b>	Option to connect with the Bit Reader.	

## Agrónic Bit Con (controller without keyboard neither screen)

Agrónic Bit Con format with quick-connect “M12” external connectors.



MODELS	Remarks
Agrónic Bit Con 3-31	3 2/3-wires latch outputs, 3 digital input, 1 analog inputs (1: 4-20 mA).
Agrónic Bit Con 9-83	9 2/3-wires latch outputs, 8 digital input, 3 analog inputs (2: 4-20 mA, 1: 0-20 V).
Agrónic Bit Con 2R9-89	2 relay outputs, 9 2/3 wires latch outputs, 8 digital input, 9 analog inputs (8: 4-20 mA, 1: 0-20 V).

In case of latch 3-wires, it is needed diodes box. Consult the Accessories section for more information.

OPTIONS	Description	Remarks
Remote management communication	<b>Cloud</b> “Web database” (Agrónic APP + VEGGA)	License to connect with the Progrés cloud.  Modem option required. To use the Agrónic APP or VEGGA you must register the controllers in the cloud and pay an annual fee. Not available for Net Version. <i>It is activated by a code.</i>
	<b>Cloud + PC</b> “Agrónic PC Program” (Agrónic APP + VEGGA + Agrónic PC)	<b>Modem</b> - License to connect up to 3 PCs/ Servers or to the cloud.  <b>USB and Radiolink</b> - License to connect 1 PC / Server.  Modem option, USB or Radiolink required. To use the Agrónic APP o VEGGA you must register the controllers in the cloud and pay an annual fee. Not available for Net Version. <i>It is activated by a code.</i>
	<b>Modem link / SMS messages Con</b>	Option to link with Agrónic APP, VEGGA and Agrónic PC by modem, and / or receive SMS messages from the controller.  Includes modem with deactivated Movistar M2M SIM card. Includes 5dBi quad-band antenna and 3 meters of cable. It is not compatible with Radiolink option.
	<b>USB link Con</b>	Option to link with Agrónic PC by cable.  Includes three meters of cable.
	<b>Radiolink 433 MHz Con</b>	Option to link with Agrónic PC by radio.  Necessary to have an Agrónic Radiomódem 433 MHz connected to the Agrónic PC program. Check section about Radiomódem 433 MHz. It is not compatible with link option.
Radio	<b>AgroBee-L link 868 MHz / 915 MHz / 433 MHz Con</b>	Option to link with AgroBee-L (Lora technology) external modules.  It incorporates coordinator, omnidirectional antenna and 10 meters of cable, optionally 15 meters (ask for price). It is not compatible with Radiolink option.
Others	<b>Determining factors</b>	Option to modify irrigation and fertilizer values, fertilizer stop or end due to rain.  <i>It is activated by a code.</i>
	<b>External connector for Bit reader</b>	Option to connect with the Bit Reader.
	<b>Internal reader Agrónic Bit Con</b>	Option for local configuration.  It incorporates screen and keyboard inside the box.

EXTENSIONS	Remarks
Extension board from 9 to 18 outputs Agrónic Bit Con	It is not compatible with inputs extension.
Extension board of 6 analog inputs + 2 relays Agrónic Bit Con	It is not compatible with outputs extension.

For extensions it will be needed to send the controller to Progrés.

## ACCESSORIES FOR AGRÓNIC BIT DIN, AGRÓNIC BIT CAB AND AGRÓNIC BIT CON

06680282	06140210	06140418	06140352	06580089	06750012	06140273
Bit reader for Bit Cab and Bit Con format	Power supply 220/12 V 2 A	Solar regulator 12V 120W	Rechargeable battery 18 A 12 V	Solar panel 20 W 12 V and holder	Pulse frequency transmitter	Quadband GPRS directive antenna 11 dBi (10m cable)
		For input voltage equal to or less than 30V.	Extension of autonomy			Price if it is requested with controller purchase

# 05 CONTROLLERS FOR SPECIFIC FUNCTIONS

## Agrónic Smart

The Agrónic Smart is an irrigation controller used to manage small land parcels and gardens. It offers more features than those that come standard with other garden products, with a wide range of available programming options and the ability to adapt to the needs of each site.

It is suitable for irrigation systems with two- or three-wire latch solenoid valves. It uses two long-lasting alkaline batteries, and does not have a screen and keyboard. The controller's IP67-grade protection allows it to be installed outdoors.



All programming is done through the Agrónic Smart application – free of charge, with no instalments – which is available through Google Play and the Apple Store. It offers a wireless connection of up to 50 metres, with the ability to program while disconnected and download information upon reconnecting.

There are 2 versions of the controller, the Basic version and the Plus version, with fertilizer management and an alternating sector sequence in one program.

Some of the most noteworthy features include:

- Up to 10 outputs managed based on the established configuration:
  - 10 sectors
  - 9 sectors + 1 general
  - 9 sectors + 1 fertilizer (Plus version)
  - 8 sectors + 1 general + 1 fertilizer (Plus version)
- Irrigation stop/start conditions, or up to 2 irrigation, fertilizer or rain meters, and ability to view totals and flow through the 2 digital inputs.
- 5 different schedules in the same program.
- Irrigation of more than one sector at once.
- Activation of a sector on different programs.
- Alternating sector sequence (Plus version).
- 1 output for fertilizer control (Plus version).
- Different fertilization time for each sector.
- Activation of a general output.
- Configuration of water hammer.





Comes with a button on the controller panel that allows for basic options to be carried out without requiring the application to be connected.

MODELS	Units	Remarks
Agrónic Smart i1 2 wires	1 - 5 u	
Agrónic Smart i1 3 wires	1 - 5 u	Includes diode box
Agrónic Smart i1 2 wires	6 - 10 u	
Agrónic Smart i1 3 wires	6 - 10 u	Includes diode box
Agrónic Smart i1 2 wires	+ of 10 u	
Agrónic Smart i1 3 wires	+ of 10 u	Includes diode box

VERSIONS
Basic version
Plus version

OPTIONS
12 V external supply. <i>(Only if requested with the purchase of the unit).</i>

### ACCESSORIES FOR AGRÓNIC SMART

06140210  Power supply 220/12 V 2 A	06140418  Solar regulator 12V 120W	06140216  Battery 7 Ah 12 V	06580082  Solar panel 5 W 12 V and holder
Solar power pack			

## Agrónic 52

The Agrónic 52 is a controller that continually mixes two streams of water to achieve programmed conductivity through the use of one or two motorised valves. Three programs with a mixed EC reference that can be activated through digital inputs. Direct connection to EC sensor. Instantaneous value reading.

### OPTIONS

Agrónic 52 with transmitter 24 Vac

Agrónic 52 with transmitter 12 Vdc



## Agrónic 54

Unit that regulates the electrical conductivity (EC) of the irrigation water, through the injection of 2 possible fertilizers, as well as the pH through acid or base injection. 3 programs with reference in EC and pH, which can be activated by digital input. Direct connection of EC and pH sensor. Reading of instantaneous value.

There are two versions, according to how the dosage has to be applied: one with “pulsed injection” that works with solenoids for Venturi systems, and the other with “analog injection” that works with frequency drive units.

Power supply delivered to unit is 24 Vac. Optionally 12 Vdc. 24 Vac outputs in pulsed injection version, and 0-10 Vdc in analog injection version.

### OPTIONS

Agrónic 54 with transmitter 24 Vac pulsed injection

Agrónic 54 with transmitter 24 Vac analog injection

Agrónic 54 with transmitter 12 Vdc pulsed injection



## Agrónic Diesel

Controller for starting, stopping and doing other controls on diesel or petrol engines (and generator sets). Activations can be performed by 5 scheduled programs, by external orders and manually. Start, stop and contact outputs. Configurable sectors, fertilizers, electric pump, malfunction indication and preheating. Operating power supply voltage is 12 Vdc.

### MODELS

Agrónic Diésel



\* For Diesel Control purchases, consult Progrés.

# Agrónic Filtros

Controller for automatic cleaning of filters by time, volume or by difference of pressure, with different starting and working possibilities. There are three models depending on the number of filters: 6, 12 and 18 filters (plus 1 general output and 5 signal inputs in each one). It is available for 220 and 115 Vac, 12 Vdc and for 2 and 3 wires latch solenoids.



## MODELS

Agrónic Filtros 6 220/24 Vac	6 Filters
Agrónic Filtros 6 12 Vdc	
Agrónic Filtros 6 12 Vdc latch 2 wires	
Agrónic Filtros 6 12 Vdc latch 3 wires (includes diode box)	
Agrónic Filtros 12 220/24 Vac	12 Filters
Agrónic Filtros 12 12 Vdc	
Agrónic Filtros 12 12 Vdc latch 2 wires	
Agrónic Filtros 12 12 Vdc latch 3 wires (includes diode box)	
Agrónic Filtros 18 220/24 Vac	18 Filters
Agrónic Filtros 18 12 Vdc	
Agrónic Filtros 18 12 Vdc latch 2 wires	
Agrónic Filtros 18 12 Vdc latch 3 wires (includes diode box)	

## FORMATS

Format box
Format to build-in

# IrriFiltros

Small controller for the automatic control of filter cleaning, by time, volume and difference of pressure. Model with up to 6 irrigation filters, or 5 filters and a general output. It has three signal inputs for malfunctions, flow detection or meter and differential pressure gauge. It works with a 9 V battery and 2-wire "latch" solenoids.



## MODELS

IrriFiltros with a 9 V battery
--------------------------------

## OPTIONS

3 batteries
12 Vdc



# 06 EXTERNAL MODULES FOR REMOTE IRRIGATION MANAGEMENT

External modules for the activation of valves and other irrigation elements, as well as sensors and meters readings.

## AgroBee-L *(For export, consult annotation on the last page)*

Very low-consumption radio modules. It is the best solution to save costs as a substitute for the cable, avoid incidents typical to micro-tube installation, overcome obstacles, expand sectors, read sensors, perform temporary installations, etc.

The AgroBee-L/AgroBee link option is required on the device. Progrés will conduct a coverage study that will be necessary to supply the controllers.

AgroBee-L replaces AgroBee as a standard solution for new controllers, including best features. However, AgroBee will continue to be valid for extensions, refunds and updates. These are the characteristics of both:



	AGROBEE-L
Compatible controllers	Agrónic 2500 version 3 or higher, Agrónic 4500, Agrónic 5500 and Agrónic Bit Cab / Bit Con
Communication standard	LoRa
Frequency: Free band	868 MHz / 915 MHz / 433 MHz
Scope (according to orography)	2500 meters
Repeater	No
Number of modules per controller	20
Stress Yield	Self-adjusting
Reader modules	Yes (cable or wireless)
Upgradeable on farm	Yes

## Modules for the activation of valves and reading of sensors

SD ED EA	Description
AgroBee-L 2sd 2ed	2 2/3-wires <sup>(1)</sup> latch solenoids and 2 meters or digital sensors
AgroBee-L 2sd 2ed 1ea	2 2/3-wires <sup>(1)</sup> latch solenoids, 2 meters or digital sensors and 1 analog sensor 4-20 mA or 0-20 V
AgroBee-L 8sd 2ed	8 2/3-wires <sup>(1)</sup> latch solenoids and 2 meters or digital sensors
AgroBee-L 9sd 2ed 2ea	9 2/3-wires <sup>(1)</sup> latch solenoids, 2 meters or digital sensors and 2 analog sensors 4-20mA or 0-20 V
AgroBee-L 6sd 6ed 2ea	6 2/3-wires <sup>(1)</sup> latch solenoids, 6 meters or digital sensors and 2 analog sensors 4-20mA or 0-20 V

Modules for the activation of latching solenoids and reading of digital and analogue sensors. The modules are provided with supercapacitors, a solar panel, and 7 meters of cable. For IP68 modules, please see the “gardening” section. Battery modules, to consult.

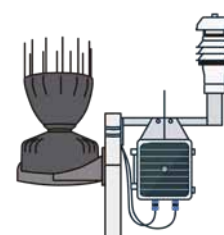
For installation of modules in irrigation sheds, the use of internal power supplies, antennae and terminals is recommended, price to be checked.

<sup>(1)</sup> In case of latch 3-wires, it is needed diodes box. Consult the Accessories section for more information.

## Modules for reading sensors

METEO	Description	Sensors included
AgroBee-L Meteo	With solar panel and battery included	Temperature, relative humidity, solar radiation, anemometer, weather vane, atmospheric pressure and raing gauge.

Very low consumption radio module and part of the AgroBee-L system for reading the meteorological sensors integrated in a station.

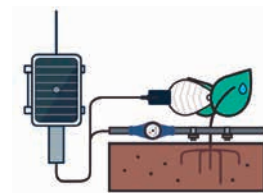


H2O	Description	Homologated sensors
AgroBee-L/AgroBee H <sub>2</sub> O	With solar panel included.	Meter Group PHYTOS-31

Module for reading 3 LWS sensors (LWS: Leaf Wetness Sensor), and 1 digital sensor or meter or rain gauge. Does not include sensors. For IP68 modules, please see the “gardening” section.

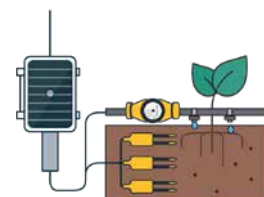
DENDOMETER	Description	Homologated sensors
AgroBee-L/AgroBee dendometer for 1 sensor	With solar panel included.	ECOMATIK DC2, DF (15mm), ECOMATIK DC1, DD-S, DD-L, DR, DV, DRO (11mm), ECOMATIK DC3 (25mm), VERDTECH PLANTSENS (ajustable)
AgroBee-L/AgroBee dendometer for 2 sensors	With solar panel included.	

Modules that give measures of changes in the diameter of the plant stems (µm), and the reading of 1 digital sensor or meter or rain gauge. Does not include sensors.



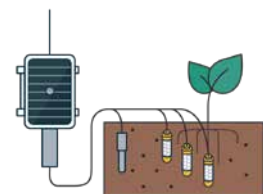
H2O	Description	Homologated sensors
AgroBee-L/AgroBee H <sub>2</sub> O	With solar panel included	Decagon 10HS, Watermark 200SS + 200SS-VA + 200TS, Solfranc SF-S210, Decagon EC-5, Decagon GS1, Meter Group TEROS-10

Module for reading 3 VWC sensors (VWC: Volumetric Water Content), and 1 digital sensor or meter or rain gauge. Does not include sensors. For IP68 modules, please see the “gardening” section.



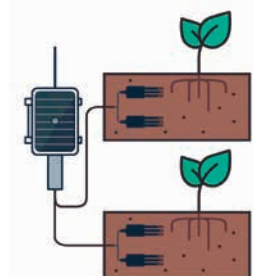
WATERMARK	Description	Homologated sensors
AgroBee-L/AgroBee Watermark	With solar panel and one temperature sensor included.	Watermark 220SS

Module with 3 analog inputs for Watermark 200SS soil water potential sensors, plus a digital sensor or meter or rain gauge. It includes an external soil temperature sensor to have temperature-corrected readings.



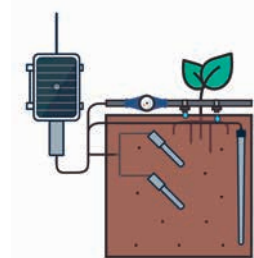
SDI-12	Description	Homologated sensors
AgroBee-L SDI-12	With solar panel included.	Decagon 5TE, Decagon GS3, Campbell CS650, Stevens Hydraprobe-II, AquaCheck-4, AquaCheck-8, Sentek Drill&Drop, Sentek Drill&Drop TriScan, Meter Group TEROS-12, Apogee NDVI/PRI, Meter Group TEROS-21, EnviroPro
AgroBee-L SDI-12 220V/12V o 12V	With blind cover.	

Module for reading up to 4 tri-sensors of VWC (Volumetric Water Content), temperature and EC (electrical conductivity) through SDI-12 communications bus, plus a digital sensor or meter or rain gauge. Does not include sensors. A battery-powered version is available.



NUTRI	Description	Homologated sensors
AgroBee-L Nutri	With solar panel included.	NutriSens (NO <sub>3</sub> -, K+), Aquacheck, Sentek Drill&Drop, EnviroPro

**Only for AgroBee-L models.** Module for the reading of 2 nutrient sensors (nitrate and potassium) and a multi-sensor for water content in the soil and temperature up to 4 levels, by an SDI-12 communications bus. It also offers the reading of 1 digital sensor or meter or rain gauge.



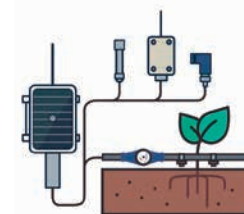
GNSS	Description
AgroBee-L GNSS 3 x 5 W	With 3 external 5 W solar panel and holder included.
AgroBee-L GNSS - 2SD 1ED 2EA 3 x 5 W	With 3 external 5 W solar panel and holder included.

Module with GNSS locator. It is used to place on the map the geographical position of a pivot and its movement. There is a model with 2 digital outputs, 1 digital input or meter or rain gauge, and 2 analog inputs. In case of latch 3-wires, it is needed diodes box. Consult the Accessories section for more information.



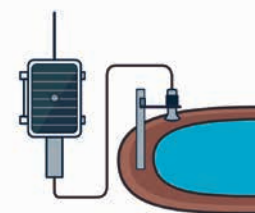
3MA	Description
AgroBee-L 3MA	With built-in solar panel and battery included.
AgroBee-L 3MA 220V/12V or 12V	With blind cover.

Module for reading 3 4-20 mA analog sensors (or 2 4-20 mA sensors and 1 0-20 V sensor), and 1 digital sensor or meter or rain gauge. Does not include sensors.



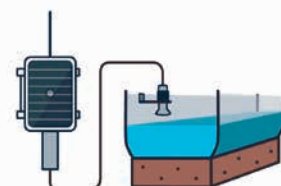
3LV	Description
AgroBee-L/AgroBee 3LV with 1 sensor	With solar panel and 1 sensor included.
AgroBee-L/AgroBee 3LV with 2 sensors	With solar panel and 2 sensors included.
AgroBee-L/AgroBee 3LV with 3 sensors	With solar panel and 3 sensors included.

Module for reading ultrasonic sensors, which can provide measurements of distance, level and/or volume. There are 3 models of 1 to 3 level sensors incorporated to the controller for a range of 0-9 meters and with a maximum resolution of 1 mm, which can be applied in tanks, pools or wells. Digital sensor or meter or rain gauge reading (not available in option with 3 sensors).



PARSHALL	Description
AgroBee-L/AgroBee Parshall	With solar panel and sensor included.

Module that provides water flow measurements in open channels based on standard Parshall flumes by reading 1 ultrasonic sensor incorporated into the controller. Digital sensor or meter or rain gauge reading.



## Agrónic Radio *(For export, consult annotation on the last page)*

Remote modules which work at free-licensed 433 MHz frequency, and can reach a maximum distance of 2,8 km, according to orography. It will be needed coverage study.

The system consist of an Agrónic Radio Link (EAR), with capacity up to 60 Agrónic Radio Modules (MAR). Available models with Ni-Mh rechargeable batteries and lithium batteries. In case of rechargeable batteries, solar panel is required.

Applicable to Agrónic 4500, Agrónic Net, Agrónic 4000 and Agrónic 7000, and also to other control equipment such as PLC, working with the Modbus protocol.



MODELS 433 MHz
Aggrónic Radio Link EAR 12 Vdc 433 MHz
Aggrónic Radio Link EAR 220 Vac 433 MHz

OPTIONS 433 MHz
Increase for 3 littium batteries

MODULES 433 MHz	Remarks
Aggrónic Radio module MAR4-42 433 MHz with rechargeable battery	4 2-wires latch solenoids (or 2 3-wires), 4 meters or digital sensors, 2 analog sensors
Aggrónic Radio module MAR10-102 433 MHz with rechargeable battery	10 2-wires latch solenoids (or 5 3-wires), 10 meters or digital sensors, 2 analog sensors
Aggrónic Radio module MAR16-162 433 MHz with rechargeable battery	16 2-wires latch solenoids (or 8 3-wires), 16 meters or digital sensors, 2 analog sensors

### ACCESSORIES FOR AGRÓNIC RADIO

06140238

Stabilized transformer 220/12V 0,5 A

For EAR and MAR with rechargeable battery and light point

06580082

Solar panel 5 W 12 V and holder

Other models available

06580061

Mast 4,5 m 40 mm

For MAR 433 MHz antenna installation

06580062

Mast 6 m 40 mm

For MAR 433 MHz antenna installation

Pressure sensor and flow detection

Check section about sensors/water for more information

# Agrónic Monocable

System based on an Agrónic Monocable Link (EAM) to which up to 120 modules may be connected of any of the possible models. The 2-wires connection cable allows both power supply and communication of Agrónic Monocable Modules (MAM) with free connection topology and line lengths that may exceed 10 km.

Applicable to Agrónic 4500, Agrónic Net, Agrónic 4000 and Agrónic 7000, and also to other control controller such as PLC or automaton, working with the Modbus-RTU protocol.

MODELS	Remarks
Agrónic Monocable link EAM 220 Vac + UPS	With protections for the EAM and controller 485 ports, and the Monocable bus
Agrónic Monocable link EAM solar power supply 12 Vdc	With protections for the EAM and controller 485 ports, and the Monocable bus

## Encapsulated modules

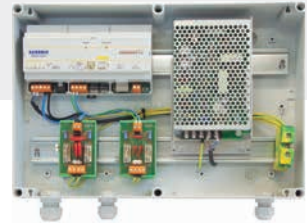
Appropriate to be installed outdoors.



MODELS Encapsulated	Remarks
Agrónic Monocable module MAM1-20	1 2-wires latch solenoid and 2 digital inputs or meters
Agrónic Monocable module MAM2-00	2 2-wires latch solenoids or 1 3-wires
Agrónic Monocable module MAM2-22	2 2-wires latch solenoids or 1 3-wires, 2 digital inputs or meters and 2 analog inputs
Agrónic Monocable module MAM3-30	3 2-wires latch solenoids or 1 3-wires, and 3 digital inputs or meters
Agrónic Monocable module MAM3-32	3 2-wires latch solenoids or 1 3-wires, 3 digital inputs or meters and 2 analog inputs
Agrónic Monocable module MAM3-36 SDI	3 2-wires latch solenoids or 1 3-wires, and 3 digital inputs or meters, 6 analog inputs, and one SDI-12 port.
Agrónic Monocable module MAM5-72	5 2-wires latch solenoids or 2 3-wires, 7 digital inputs (5 can be meters) and 2 analog inputs
Agrónic Monocable module MAM8-102	8 2-wires latch solenoids or 4 3-wires, 10 digital inputs (8 can be meters) meters and 2 analog inputs




Agrónic Monocable link EAM 220 Vac + UPS



Agrónic Monocable link EAM 12 Vdc

## ACCESSORIES FOR AGRÓNIC MONOCABLE

06140209  Encapsulated line protection for Agrónic Monocable It is installed in the line to protect the module of electric shocks	06140173  RS 485 line protection It is installed to protect the RS 485 port from overvoltages	06140174  Protection for Agrónic Monocable link It is installed in the line to protect the module from overvoltages	06145401  230V/230V isolating transformer	06145400  Transformer DIN DC-DC isolated 12V 5A	06145100  RS 485 repeater galvanic isolator	 Pressure sensor and flow detection Check section about sensors/water for more information
<b>Protection pack for the EAM</b>						

## Modules Reader

The Module Reader consists of a screen and four keys that are connected to the module through the only visible connector inside, for configuration, consultation, and manual activation.

A wireless module reader is also available that allows you to perform functions without the need for a cable.

Code	MODELS	Remarks
06580065	Modules Reader	Cable connection to Agrónic Radio, Agrónic Monocable and AgroBee-L.
06690552 06690553	Wireless module Reader	Cable connection to Agrónic Radio, Agrónic Monocable. Wireless connection to AgroBee-L.



# 07 SYSTEMS FOR THE REMOTE CONTROL AND REMOTE MANAGEMENT OF IRRIGATION IN IRRIGATION COMMUNITIES AND LARGE FARMS

System for remote control and remote management of irrigation in irrigation communities and large farms. Its multiple options for programming, communication and field modules make it a fully

customizable and always evolving system, since at any time new forms of work and management can be incorporated.

For help with the development of the project or budget, contact Progrés's commercial department.

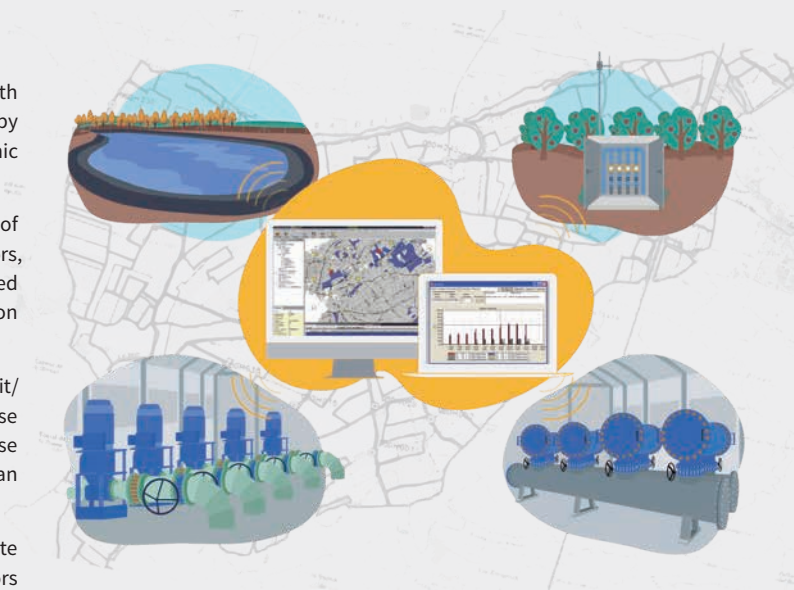
## Agrónic Net II

System for large communities without limit of users and hydrants, with customization according to the number of modules or ports. Composed by the Agrónic Net II / PC program and external modules Agrónic Radio, Agrónic Monocable, Agrónic Bit and/or an Agrónic Net II concentrator.

The Agrónic Net II / PC program is a management tool for the control of hydrants and any type of element that a community may have: sensors, motors, frequency variators, filters, fertilizers, general meters, motorized valves, irrigation pools, wells, etc. even being able to manage the irrigation within a plot.

The system supports the Agrónic Radio, Agrónic Monocable, Agrónic Bit/ GPRS external modules, and also the Agrónic Net II concentrator. These elements are linked to the control centre via cable, radio or GPRS. In case of loss of communication with the communication front, the modules can perform irrigation of the hydrants that they manage.

The program's powerful SQL-Server database allows for the complete management of the irrigation Community, as well as access to the irrigators through the Web Portal.



### PROGRAM / SOFTWARE

Agrónic Net II / PC program with guardian
Web portal
Domain and personal web hosting for one year

### ACCESS LICENSES TO THE WEB PORTAL

From 1 to 50 users
From 51 to 100 users
From 101 to 200 users
From 201 to 400 users
From 401 to 600 users
More than 600 users

### CONCENTRATOR

433 Concentrator with Satellite Radio Modem
GPRS gateway 433 concentrator
Water pressure regulation option
Fertilization by grouping option
GPRS-RS485 12 V gateway (to communicate with the EAM control center).

### EXTERNAL MODULES

EXTERNAL MODULES	Remarks
Agrónic Radio (MAR)	The Agrónic Radio is a remote-control system for activating solenoids and reading remote meters and remote sensors via radio.
Agrónic Monocable (MAM)	The Agrónic Monocable is a remote-control system for the activation of solenoids and the reading of remote meters and sensors by means of a single two-wire cable.
Agrónic Bit	The Agrónic Bit is a multifunctional system for water management; it is configurable, versatile, and expandable, with very low consumption.

For more information and prices, see the section "External modules for remote irrigation management" or "Controllers for specific functions".



# 08 SOLUTIONS FOR REMOTE CONTROL AND REMOTE MANAGEMENT OF IRRIGATION IN PARKS AND PUBLIC GARDENS

Controllers for the control and management of irrigation in parks, gardens, and green areas with various communication solutions adaptable to the particular needs of an urban environment with sealing and anti-vandalism conditions.

All these solutions can be controlled and managed remotely

through our management tools (Agrónic PC, VEGGA and Agrónic APP). See section “Remote management” to learn about all its functions.

For help with the development of the project or budget, contact Progrés’s commercial department.

## Monocable system

Remote management system for activating solenoids and reading remote meters and sensors by means of a single two-wire cable. The system is based on a Monocable Agrónic Link (EAM) which can be connected to up to 120 modules (MAM) for a maximum distance of 10Km.

The Agrónic Monocable Link can be integrated with the Agrónic 4500, Agrónic 4000 and Agrónic 7000 controllers, although it can also be integrated with other control equipments through the Modbus-RTU protocol.



### EAM

#### Agrónic Monocable link

MODELS	Remarks
Agrónic Monocable link EAM 220 Vac + UPS	With protections for the EAM and controller 485 ports, and the Monocable bus
Agrónic Monocable link EAM solar power supply 12 Vdc	With protections for the EAM and controller 485 ports, and the Monocable bus



### MAM

#### Agrónic Monocable modules (encapsulated)

MODELS Encapsulated	Remarks
Agrónic Monocable module MAM1-20	1 2-wires latch solenoid and 2 digital inputs or meters
Agrónic Monocable module MAM2-00	2 2-wires latch solenoids or 1 3-wires
Agrónic Monocable module MAM2-22	2 2-wires latch solenoids or 1 3-wires, 2 digital inputs or meters and 2 analog inputs
Agrónic Monocable module MAM3-30	3 2-wires latch solenoids or 1 3-wires, and 3 digital inputs or meters
Agrónic Monocable module MAM3-32	3 2-wires latch solenoids or 1 3-wires, 3 digital inputs or meters and 2 analog inputs
Agrónic Monocable module MAM3-36 SDI	3 2-wires latch solenoids or 1 3-wires, and 3 digital inputs or meters, 6 analog inputs, and one SDI-12 port.
Agrónic Monocable module MAM5-72	5 2-wires latch solenoids or 2 3-wires, 7 digital inputs (5 can be meters) and 2 analog inputs
Agrónic Monocable module MAM8-102	8 2-wires latch solenoids or 4 3-wires, 10 digital inputs (8 can be meters) meters and 2 analog inputs





## Radio system

Very low consumption radio modules and integrated parts of the AgroBee-L system for the activation of latching solenoids and reading of digital and analog sensors. This type of module is internally resined (IP68) so it is suitable to be installed at ground level with coverage of up to 500m, depending on orography. These modules are powered by an internal 19 Ah battery which provides more than 1'5 years of life to said module.

They are connected to the Agrónic 2500 controllers version 3 or higher for the transfer of the information to the Control Centre via Modem/WiFi.



### AgroBee-L

MODELS	Remarks
AgroBee-L 2sd 2ed IP68	Module for the activation of 2 latching solenoids of 2 or 3 wires <sup>(1)</sup> and 2 meters or digital sensors or rain gauge.
AgroBee-L 8sd 2ed IP68	Module for the activation of 8 latching solenoids of 2 or 3 wires <sup>(1)</sup> and 2 meters or digital sensors or rain gauge.
AgroBee-L 2sd 2ed 1ea IP68	Module for the activation of 2 latching solenoids of 2 or 3 wires <sup>(1)</sup> , 2 meters or digital sensors or rain gauge and 1 analog sensor 4-20 mA or 0-20 V.
AgroBee-L 6sd 6ed 2ea IP68	Module for the activation of 6 latching solenoids of 2 or 3 wires <sup>(1)</sup> , 6 meters or digital sensors or rain gauge and 2 analogs sensors 4-20 mA or 0-20 V.
AgroBee-L 9sd 2ed 2ea IP68	Module for the activation of 9 latching solenoids of 2 or 3 wires <sup>(1)</sup> , 2 meters or digital sensors or rain gauge and 2 analogs sensors 4-20 mA or 0-20 V.
AgroBee-L H <sub>2</sub> O IP68	Module for reading 3 water content sensors in soil or wet leaves, plus 1 digital sensor or meters.
AgroBee-L 3LV IP68 with 2 sensors	Module for reading 2 ultrasonic sensors, which can provide measurements of distance, level and/or volume.

Other models to consult. <sup>(1)</sup>In case of latch 3-wires, it is needed diodes box. Consult the Accessories section for more information.

OPTIONS	Description
Anti-vandalism external antenna	Suitable for improving coverage and indispensable for installation of modules in boxes with metal covers. Price if requested with the purchase of the option.

## GPRS system

Local controller for the management of latching solenoids and reading of digital and analog sensors, totally sealed with M12 connectors, with GPRS communication with management Software.




### Agrónic Bit

MODELS
Agrónic Bit Con 3-31
Agrónic Bit Con 9-83
Agrónic Bit Cab 3-82 modem / SMS
Agrónic Bit Cab 3-88 modem / SMS
Agrónic Bit Cab 8-82 modem / SMS
Agrónic Bit Cab 9-22 modem / SMS
Agrónic Bit Cab 18-22 modem / SMS



OPTIONS
Modem link / SMS messages Con. If it is added later.
AgroBee-L link 868 MHz / 915 MHz Con / Cab
Internal reader Agrónic Bit Con / Cab
External connector for Bit Reader

COMPLEMENTS
06680282

Bit Reader

# 09 SENSORS

## Agrónic Bit Meteo



The unit is made up of a "Data Logger" (Agronic Bit) linked by connectors to different sensors in the station, along with a solar panel, charger and battery to power the system. It uses a modem and a SIM card to connect to the cloud.

Code	MODELS
06680501	Agrónic Bit Meteo

The sensors it integrates are:

- Temperature (inside a solar protector)
- Relative humidity (inside a solar protector)
- Solar radiation
- Rain gauge (0,2 l)
- Anemometer
- Vane

## Weather station



Set of meteorological sensors, arranged in a compact assembly to be assembled on a single mast. The sensors it integrates are:

- Temperature (inside a solar protector)
- Relative humidity (inside a solar protector)
- Solar radiation
- Rain gauge (0,2 l)
- Anemometer
- Vane
- Atmospheric pressure (Compact Station)
- Photo-synthetic radiation (Compact Station)

Code	MODELS
06730001	Weather station 4-20 mA
06730050	Compact weather station (with rain gauge)

Each sensor has a specific connector connectable to a junction box where the feeds and read signals are centralized to a single 12 m cable to connect it to the controller that will read the sensors. The set has a system to avoid bird parking.

The compact weather station works with SDI-12 protocol. (see compatibility table)

## Rain Gauge



Gauge of rainfall or irrigation water, either by sprinkling or pivot. Manufactured in resistant plastic to the U.V. lightning and other meteorological agents.

Code	MODELS	Remarks
06140141	Rain gauge with cable. Sensitivity 1 liter / pulse	To connect to external modules contact us.
06140259	Rain gauge with cable. Sensitivity 0,2 liters / pulse	To connect to external modules contact us.

## Rain Presence sensor



Sensor plus transmitter for the detection of the presence of rain. Electrically detects the humidity of the surface that, translated to an electrical resistance, generates a 4-20 mA output.

Code	MODELS
06140166	Soaking sensor with transmitter 4-20 mA

## Anemometer



Sensor for reading wind speed, with a transmitter which generates a 4-20 mA output signal for a range of readings from 0 to 120 Km/h.

Code	MODELS	Remarks
06140227	Anemometer 4-20 mA	To connect to the Monocable system, it needs external power.

## Vane



Sensor for reading wind direction, with a transmitter which generates a 4-20 mA output signal.

Code	MODELS
06140233	Wind direction sensor 4-20 mA

## Temperature sensors



There are two models, one with voltage output, with the sensor located in sheath of stainless steel and sealed, very easy to install; and another with 4-20 mA output, which incorporates a Pt100 type sensor.

Code	MODELS	Remarks
06140101	Temperature sensor voltage output	Supplied with 1 m of cable (other measures of cable, cost a part: 5 m, 10 m or 15 m).
06140325	Temperature sensor 4-20 mA	

## Relative humidity and temperature sensors



Sensors with high sensitivity and accuracy, and 4-20 mA output. They can be used for a wide range of premises and different types of environment. There is also a version with an incorporated temperature sensor.

It is advisable to use the ventilated relative humidity sensor for environments with high humidity and high possibility of condensation in the sensor.

Code	MODELS	Remarks
06080201	Relative humidity sensor 4-20 mA	Supplied with 5 m of cable.
06750007	Relative humidity sensor 4-20 mA + temperature 4-20 mA	Supplied with 5 m of cable and solar protect.
06750009	Ventilated sensor relative humidity sensor 4-20 mA + temperature 4-20 mA	It is supplied with a 5m cable, a solar protector, and integrated ventilation.

## Sensor for solar radiation reading



It is easy to install in a mast by means of a clamp which is supplied with the sensor. The sensor is protected to bear any adverse climatic conditions: rain, wind, high humidity, etc. 4-20 mA output.

Code	MODELS	Remarks
06350102	Solar radiation sensor 4-20 mA	Supplied with 5 m of cable.

## Luminosity sensor



Sensor for measuring the ambient lighting, reliable and accurate both in exterior and interior conditions. Output current loop 4-20mA through the same power cable.

Code	MODELS
06131004	Luminosity sensor 4-20 mA

## Sensor for reading photosynthetic radiation



Sensor for reading the flow of photosynthetic photons. 4-20 mA output. Availability on demand.

Code	MODELS
06140296	Photosynthetic radiation sensor 4-20 mA PIR-1M

## Reflectance sensors



Sensors for the measurement of the normalized difference vegetation index (NDVI) and for the measurement of the photochemical reflectance index (PRI). SDI-12 output.

Support included.

Availability on demand.

Code	MODELS	Remarks
06140298	NDVI Reflectance sensors	Kit consisting of an upward sensor + downward sensor + support.
06140299	PRI Reflectance sensors	Kit consisting of an upward sensor + downward sensor + support.

### Dendrometer sensors on trunk



High precision displacement sensors through which the dilation and contraction of the trunk or stem can be measured. It is very useful to know if a correct growth of the stem occurs, showing immediately the hydric stress to which it is subjected through the oscillation amplitude of the sensor.

Availability on demand.

Code	MODELS	Remarks
06140268	Ecomatik DC3 25 mm dendrometer sensor	For diameters greater than 50mm, with no maximum limit.
06140270	Verdtech Plantsens 7mm dendrometer sensor	For diameters greater than 5mm, with no maximum limit.
06140280	SD - 5M 5mm dendrometer sensor	Diameter up to 25mm. Direct 4-20 mA output.
06140281	SD - 6M 5mm dendrometer sensor	Diameter up to 70mm. Direct 4-20 mA output.
06140282	SD - 10M 10mm dendrometer sensor	Diameter up to 70mm. Direct 4-20 mA output.

### Dendrometer sensors in fruit



High precision displacement sensors through which the dilation and contraction of a plant organism can be measured. It is very useful to know if a correct growth of the organism occurs, showing immediately the hydric stress to which it is subjected through the oscillation amplitude of the sensor.

Availability on demand.

Code	MODELS	Remarks
06140269	Ecomatik DF 15 mm dendrometer sensor	
06140283	FI-XSM dendrometer sensor	Diameter up to 30mm. Direct 4-20 mA output.
06140284	FI-SM dendrometer sensor	Diameter up to 45mm. Direct 4-20 mA output.
06140285	FI-MM dendrometer sensor	Diameter up to 90mm. Direct 4-20 mA output.
06140286	FI-LM dendrometer sensor	Diameter up to 160mm. Direct 4-20 mA output.

### Sap flow sensors



Sensors to monitor the relative variations of the flow of sap.

Availability on demand.

Code	MODELS	Remarks
06140289	Sap flow sensor SF-4M	Diameter up to 5mm. Direct 4-20 mA output.
06140290	Sap flow sensor SF-5M	Diameter up to 10mm. Direct 4-20 mA output.
06141201	Florapulse stem water potential sensor	Trabaja con bus SDI-12

### Leaf temperature sensors



Sensors to measure the absolute temperature of a leaf.

Availability on demand.

Code	MODELS	Remarks
06140287	Leaf temperature sensor LT-1M	For small leaves. Direct 4-20 mA output.
06140288	Leaf temperature sensor LT-4M	For big leaves. Direct 4-20 mA output.

### Leaf moisture sensor



Dielectric sensor that reads moisture on the surface of the leaf. It is easy to install and has high accuracy. The sensor, placed as if it were one more leaf of the plant, imitates the true humidity state of the leaves, measuring the dielectric constant of the top of the sensor.

Availability on demand.

Code	MODELS	Remarks
06140224	PHYTOS 31 Leaf soaking sensor	Supplied with 5 m of cable.
06141200	4-20 mA Leaf soaking sensor	Supplied with 1,5 m of cable. Direct 4-20 mA output.

## Nitrate and potassium bi-sensor



Sensor for reading in ppm the concentration of mineral salts (nitrates and potassium) in soil. Availability on demand.

Code	MODELS
06140256	Nutrients sensor: nitrate and potassium

## Tensiometer sensors



Sensors to collect moisture readings in the soil with direct reading in cbar. A controller put into service based on a vacuum pump and accessories is required. Availability on demand.

Code	MODELS	Remarks
06140292	Tensiometer sensor Wise Pressure Sensor	Includes installation kit. Direct 4-20 mA output from 0 to 1 bar.
06140295	Irrrometer tensiometer sensor MLTTC-120 12 cm.	For use in pots. Includes installation kit. Direct 4-20 mA output from 0 to 40 cbars.
06141410	Irrrometer tensiometer sensor MLTTC-300 30 cm.	For use in pots. Includes installation kit. Direct 4-20 mA output from 0 to 100 cbars.

## Soil water potential sensors



Sensor used to measure the humidity of the soil where the crop is grown. It is very useful to know the real irrigation scope, letting us to know the real capacity of water retention of our soils. The Teros 21 sensor also provides floor temperature measurements.

Code	MODELS	Remarks
06140234	Watermark sensor	Supplied with 1.5 meters of cable
06140326	Teros 21 sensor	Supplied with 5 meters of cable

## Capacitive soil water content sensors



Sensors for reading soil water content in ratio to soil volumetric content m<sup>3</sup> water / m<sup>3</sup> ground. Calibrations for different types of terrain. High precision  $\leq \pm 0.1\%$ .

Code	MODELS	Remarks
06140293	Soil water content sensor Teros 10	Not recommended for hydroponic farming. Supplied with 5 meters of cable.
06140235	Soil water content sensor Meter EC-5	Suitable for gardening. Supplied with 5 meters of cable.

## Capacitive bi-sensor of water content in soil and electrical conductivity



Sensor for reading the water content in soil in relation to the volumetric content water m<sup>3</sup> / soil m<sup>3</sup> and electrical conductivity. Single calibration for all terrains. Accuracy  $\leq \pm 3\%$ . Availability on demand.

Code	MODELS	Remarks
06140291	Soil water content and conductivity sensor Wise Lite Sol	Reading of 2 values in the same sensor. 2 direct outputs 4-20 mA. Supplied with 4 meters of cable.

## Capacitive tri-sensor for reading Volumetric Water Content, temperature and electrical conductivity



They are easy to install and long life, they match to most agricultural soils (mineral and hydroponic), and have a high accuracy. The maximum distance of a connection via SDI-12 bus is 50m. Calibrations for different types of terrain. High precision  $\leq \pm 0.1\%$ .

Code	MODELS	Remarks
06140294	Soil water content, temperature and conductivity sensor Teros 12	Reading of 3 values in the same sensor. Suitable for hydroponic farming. Supplied with 5 meters of cable.



## Capacitive multi-sensor for reading soil water content and temperature



Formed by different bi-sensors (soil water content and temperature) installed along its length. Since it is installed perpendicular to the surface of the land, the provided measurements show the characteristics of the soil profile under study.

Aquacheck high precision  $\pm 0,01\%$  VWC,  $\pm 0,1^\circ\text{C}$ .

Sentek Drill & Drop  $\pm 0,03\%$  VWC,  $\pm 2^\circ\text{C}$ .

The maximum distance of a connection via SDI-12 bus is 50m. All the sensors are supplied with 5 meters of cable.

In all Aquacheck models, if they work with an SDI-12 transmitter, there are only 3 levels available.

We have an installation kit for the sensor that we can loan out.

Availability on demand.

Code	MODELS
06141400	Soil humidity and temperature sensor Aquacheck 800 mm long with 4 levels / sensors (10, 20, 30, 40cm). Suitable for horticulture.
06140255	Soil humidity and temperature sensor Aquacheck 1.200 mm long with 4 levels / sensors (20, 40, 60, 80cm). Suitable for arboriculture.
06140261	Soil humidity and temperature sensor Aquacheck 1.400 mm long with 8 levels / sensors (10, 20, 40, 60, 80, 100, 120, 140cm). Suitable for arboriculture.
06140316	Soil humidity and temperature sensor Sentek Drill & Drop with 3 levels (separated by 10cm). Suitable for horticulture.
06140317	Soil humidity and temperature sensor Sentek Drill & Drop with 6 levels (separated by 10cm). Suitable for arboriculture.
06140318	Soil humidity and temperature sensor Sentek Drill & Drop with 9 levels (separated by 10cm). Suitable for arboriculture.
06140319	Soil humidity and temperature sensor Sentek Drill & Drop with 12 levels (separated by 10cm). Suitable for arboriculture.

## Capacitive multi-sensor for reading soil water content, temperature and conductivity



Formed by different tri-sensors (soil water content, temperature and conductivity) installed along its length. Since it is installed perpendicular to the surface of the land, the provided measurements show the characteristics of the soil profile under study.

Sentek Drill & Drop  $\pm 0,03\%$  VWC,  $\pm 2^\circ\text{C}$ .

The maximum distance of a connection via SDI-12 bus is 50m. All the sensors are supplied with 5 meters of cable.

We have an installation kit for the sensor that we can loan out.

Availability on demand.

Code	MODELS
06140320	Soil humidity, temperature and conductivity sensor Sentek Drill & Drop with 3 levels (separated by 10cm)
06140321	Soil humidity, temperature and conductivity sensor Sentek Drill & Drop with 6 levels (separated by 10cm)
06140322	Soil humidity, temperature and conductivity sensor Sentek Drill & Drop with 9 levels (separated by 10cm)
06140323	Soil humidity, temperature and conductivity sensor Sentek Drill & Drop with 12 levels (separated by 10cm)

## EC sensors

On line  
4 electrodes



Sensors that measure the electrical conductivity of water in millisiemens (mS).



Thread  
2 electrodes

Code	MODELS
06140150	On line EC sensor with connector (4 electrodes). Supplied with 4 meters of cable.
06140151	Thread EC sensor with 89 mm connector (4 electrodes). Supplied with 3 meters of cable.
06140201	EC sensor 2 electrodes with sensor holder. Supplied with 5 meters of cable.
06141601	Thread EC sensor with 128 mm connector (4 electrodes). Supplied with 3 meters of cable.

## pH sensor



Sensor that measures the pH of the water, in a range of 0 to 14. Supplied with 5 meters of cable.

Code	MODELS
06140200	pH sensor 7 bars with sensor holder



## Pressure sensors



Sensor for pressure reading, useful for several applications and easy to install. Generates a 4-20 mA output for a range of readings from 0 to 25 bar.

Code	MODELS
06140257	Pressure sensor 16 bars 4-20 mA
06140327	Pressure sensor 25 bars 4-20 mA

## Flow detection



Adjustable threaded pressure gauge with valve or piston that opens and closes an electrical circuit depending on the set pressure. Very useful for knowing if the sectors have opened or closed. All the sensors are supplied with 2 meters of cable.

Code	MODELS
06140424	Flow detection, calibrated at 0,8 bars
06140423	Flow detection, calibrated at 1,0 bars
06140420	Flow detection, calibrated at 1,5 bars
06140419	Flow detection, calibrated at 2,5 bars

## Fertilizer meter



Magnetic-inductive flow sensor applicable to fertilization. It has a screen and three keys for consultation. The measurement range goes from 0.05 to 35 liters per minute, pulsed output configurable from 0.001 to 9999 liters/pulse. Connection: G1/2 DN15. Maximum pressure: 16 Bar. Availability to consult.

Code	MODELS	Remarks
06140338	Fertilizer meter	Supplied with 2 meters of cable.

## Level sensors



Sensor provides measurements of distances from 500 mm to 9000 mm. The 4-20 mA signal can be set to work at the desired range of distances within the full provided range. Transmitter that converts the distance measurement provided by an ultrasonic sensor to a standard 4-20 mA output. Very useful for tanks and fertilizer tanks. Hydrostatic sensor with 4-20 mA output less than 1" and recommended for level readings in large pools and tanks. Availability on demand.

Code	MODELS	Remarks
06140244	9m Level sensor with transmitter 4-20 mA	Supplied with 7 meters of cable and the transmitter.
06140297	4,5m Level sensor with transmitter 4-20 mA	Supplied with 7 meters of cable and the transmitter.
06140330	1 bar Hydrostatic pressure sensor Diameter 17mm	15 m of cable. 4-20 mA output. Includes fixing bracket.
06140331	6 bar Hydrostatic pressure sensor Diameter 17mm	80 m of cable. 4-20 mA output. Includes fixing bracket.
06140332	10 bar Hydrostatic pressure sensor Diameter 17mm	150 m of cable. 4-20 mA output. Includes fixing bracket.

## Sensor Parshall



Ultrasonic Parshall sensor with transmitter that provides flow measurements in open channels based on standard Parshall flumes up to nine meters deep with an accuracy of 1 mm. The 4-20 mA signal can be adjusted to the desired width/depth measurement range.

Código	MODELOS	Observaciones
06750013	Parshall sensor with 4-20 mA transmitter	Supplied together with the sensor.

	MODEL	A2500	A4000	A4500	A5500	A7000	ABIT	AgroBee-L	AgroBee	Monocable	Radio
WEATHER	Weather station	✓	✓	✓	✓		✓				
	Compact weather station	✓			✓			✓			
	Rain Gauge 1 liter	✓	✓	✓	✓	✓	✓	✓		✓ + MAM 5-72 or MAM 8-102 or MAM 3-36	
	Rain Gauge 0'2 liter	✓	✓	✓	✓	✓	✓	✓		✓ + MAM 5-72 or MAM 8-102 or MAM 3-36	
	Rain presence	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Anemometer 4-20 mA	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	Vane 4-20 mA	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	Temperature (tension)	✓	✓	✓	✓	✓	✓	✓	✓		
	Temperature 4-20 mA	✓	✓	✓	✓	✓	✓	✓	✓	✓ + MAM 5-72 or MAM 8-102 or MAM 3-36	✓
	Relative humidity 4-20 mA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Relative humidity + temperature 4-20 mA	✓	✓	✓	✓	✓	✓	✓	✓	✓ + MAM 5-72 or MAM 8-102 or MAM 3-36	✓
	Solar radiation 4-20 mA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Luminosity 4-20 mA	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
PLANT	Photosynthetic radiation 4-20 mA	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	Reflectance NDVI/PRI							✓ AgroBee-L SDI-12			
	Ecomatik DC3 25mm trunk Dendrometer	✓ + Dendro. trans.	✓ + Dendro. trans.	✓ + Dendro. trans.	✓ + Dendro. trans.		✓ + Dendro. trans.	✓ AgroBee-L Dendro.	✓ AgroBee Dendro.	✓ + Dendro. trans.	✓ + Dendro. trans.
	Verdtech 7mm trunk Dendrometer	✓ + Dendro. trans.	✓ + Dendro. trans.	✓ + Dendro. trans.	✓ + Dendro. trans.		✓ + Dendro. trans.	✓ AgroBee-L Dendro.	✓ AgroBee Dendro.	✓ + Dendro. trans.	✓ + Dendro. trans.
	5M-6M-10M trunk Dendrometer	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	Ecomatik DF 15mm fruit Dendrometer	✓ + Dendro. trans.	✓ + Dendro. trans.	✓ + Dendro. trans.	✓ + Dendro. trans.		✓ + Dendro. trans.	✓ AgroBee-L Dendro.	✓ AgroBee Dendro.	✓ + Dendro. trans.	✓ + Dendro. trans.
	FI- 30-45-90-160 mm fruit Dendrometer	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	Sap flow 5 or 10 mm	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	Florapulse stem water	✓	✓ + SDI-12 trans.	✓	✓ + SDI-12 trans.		✓ + SDI-12 trans.	✓ AgroBee-L SDI-12		✓ + MAM 3-36 + 5W Panel + 7A battery + regulator	✓ + SDI-12 trans. + 5W Panel + 7A battery + regulator
	Leaf temperature	✓	✓	✓	✓		✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
	PHYTOS 31 Leaf moisture	✓ + H2O trans.	✓ + H2O trans.	✓ + H2O trans.	✓ + H2O trans.		✓ + H2O trans.	✓ AgroBee-L H2O	✓ AgroBee H2O	✓ + H2O trans.	✓ + H2O trans.
	4-20 mA Leaf moisture	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SOIL	Nutrients: nitrate and potassium							✓ AgroBee-L Nutri		
Wise Pressure		✓	✓	✓	✓	✓	✓	✓	✓	✓ + 5W Panel + 7A battery + regulator	✓
Irrrometer MLTTC-120		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

MODEL	A2500	A4000	A4500	A5500	A7000	ABIT	AgroBee-L	AgroBee	Monocable	Radio	
SOIL	Irrrometer ISRTC-300	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Watermark	+ 3 Water. trans.	+ 3 Water. trans.	+ 3 Water. trans.	+ 3 Water. trans.	+ 3 Water. trans.	AgroBee-L Watermark	AgroBee Watermark	+ 3 Water. trans.	+ 3 Water. trans.	
	Meter EC 5	+ trans. H2O	+ trans. H2O	+ trans. H2O	+ trans. H2O	+ trans. H2O	AgroBee-L H2O	AgroBee H2O	+ trans. H2O	+ trans. H2O	
	Teros 21	+ SDI-12 trans.	+ SDI-12 trans.	+ SDI-12 trans.	+ SDI-12 trans.	+ SDI-12 trans.	AgroBee-L SDI-12		+ MAM 3-36 + 5W Panel + 7A battery + regulator	+ SDI-12 trans. + 5W Panel + 7A battery + regulator	
	Teros 10	+ H2O trans.	+ H2O trans.	+ H2O trans.	+ H2O trans.	+ H2O trans.	AgroBee-L H2O (for other AgroBee-L consult)	AgroBee H2O (for other AgroBee consult)	+ H2O trans.	+ H2O trans.	
	Wise Lite Sol	✓	✓	✓	✓		✓	✓	+ 5W Panel + 7A battery + regulator	✓	
	Teros 12	+ SDI-12 option or SDI-12 trans.	+ SDI-12 trans.	+ SDI-12 trans.	+ SDI-12 option or SDI-12 trans.	+ SDI-12 trans.	+ SDI-12 trans.	AgroBee-L SDI-12 (for other AgroBee-L consult)	AgroBee SDI-12 (for other AgroBee consult)	+ MAM 3-36 + 5W Panel + 7A battery + regulator	+ SDI-12 trans. + 5W Panel + 7A battery + regulator
	Aquacheck	+ SDI-12 option or SDI-12 trans. (3 levels available)	+ SDI-12 trans. (3 levels available)	+ SDI-12 trans. (3 levels available)	+ SDI-12 option or SDI-12 trans. (3 levels available)	+ SDI-12 trans. (3 levels available)	+ SDI-12 trans. (3 levels available)	AgroBee-L SDI-12 or Nutri	AgroBee SDI-12	+ MAM 3-36 + 5W Panel + 7A battery + regulator	+ SDI-12 trans. (3 levels available) + 5W Panel + 7A battery + regulator
	Sentek Drill & Drop	+ SDI-12 option			+ SDI-12 option			AgroBee-L SDI-12 or Nutri		+ MAM 3-36 + 5W Panel + 7A battery + regulator	
WATER	On line 4 electrodes	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. + Panel/20W-32A battery + regulator or + CE trans. + Panel/10W-18A battery + regulator	+ pH/CE trans. + Panel/20W-32A battery + regulator or + CE trans. + Panel/10W-18A battery + regulator	+ pH/CE trans. + Panel/20W-32A battery + regulator or + CE trans. + Panel/10W-18A battery + regulator	
	Thread 4 electrodes	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. or CE trans.	+ pH/CE trans. + Panel/20W-32A battery + regulator or + CE trans. + Panel/10W-18A battery + regulator	+ pH/CE trans. + Panel/20W-32A battery + regulator or + CE trans. + Panel/10W-18A battery + regulator	+ pH/CE trans. + Panel/20W-32A battery + regulator or + CE trans. + Panel/10W-18A battery + regulator	
	Thread 2 electrodes	+ CE trans.	+ CE trans.	+ CE trans.	+ CE trans.	+ CE trans.	+ CE trans.	+ CE trans. + 5W Panel + 7A battery + regulator	+ CE trans. + 5W Panel + 7A battery + regulator	+ CE trans. + 5W Panel + 7A battery + regulator	
	pH 7 bars	+ pH/CE trans. or pH trans.	+ pH/CE trans. or pH trans.	+ pH/CE trans. or pH trans.	+ pH/CE trans. or pH trans.	+ pH/CE trans. or pH trans.	+ pH/CE trans. or pH trans.	+ pH/CE trans. + Panel/20W-32A battery + regulator or + pH trans. + Panel/10W-18A battery + regulator	+ pH/CE trans. + Panel/20W-32A battery + regulator or + pH trans. + Panel/10W-18A battery + regulator	+ pH/CE trans. + Panel/20W-32A battery + regulator or + pH trans. + Panel/10W-18A battery + regulator	
	Pressure 16 bars 4-20 mA	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Flow detector	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Fertilizer meter	✓	✓	✓	✓	✓	✓	+ power 24Vcc	+ power 24Vcc	+ power 24Vcc	
	Level	+ level trans.	+ level trans.	+ level trans.	+ level trans.		+ level trans.	AgroBee-L 3LV	AgroBee 3LV	+ level trans. + 5W Panel + 7A battery + regulator	+ level trans.
	Level (Parshall)	+ Parshall trans.	+ Parshall trans.	+ Parshall trans.	+ Parshall trans.		+ Parshall trans.	AgroBee-L Parshall	AgroBee Parshall	+ Parshall trans. + 5W Panel + 7A battery + regulator	+ Parshall trans.
	Hydrostatic level	✓	✓	✓	✓	✓	✓	✓	✓	✓	

# 10 TRANSMITTERS

WEATHER

## Transmitter for reading the Vapour-Pressure Deficit (VPD) + RH/°C 4-20 mA with cable and solar protection



Transmitter with high sensitivity and precision sensors with 4-20 mA output. Usable for a variety of enclosures and environments.

For environments with very high humidity and with a high possibility of condensation in the sensor, it is advisable to use the ventilated sensor version.

Code	MODELS	Remarks
06750003	Transmitter with sensors for 4-20 mA relative humidity +4-20 mA temperature + 4-20 mA VPD sensors	It is supplied with a 5m cable and a solar protector.
06750010	Transmitter with sensors for 4-20 mA relative humidity +4-20 mA temperature + 4-20 mA VPD sensors	It is supplied with a 5m cable, a solar protector, and integrated ventilation.

PLANT

## Dendrometer transmitter



The transmitter reads a dendrometer sensor and transforms the reading into a standard 4-20 mA signal.

Code	MODELS
06140260	Dendrometer transmitter 4-20 mA

SOIL

## 3 Watermarks transmitter with temperature sensor



Transmitter for reading three "Watermark 200SS" type soil water potential sensors. It includes a temperature sensor for compensating for the value provided by the Watermark sensor. Standard 4-20mA output signal.

Code	MODELS	Remarks
06750006	3 Watermarks transmitter with temperature sensor	Does not include Watermark sensors.

## SDI-12 transmitter



Transmitter for reading a Teros 21 Aquacheck sensor (3 levels of VWC) or Teros 12.

If working with external modules, you will need a 5W 12V solar panel and support + solar panel regulator with a 7Ah battery. It is necessary to determine which sensor model will be used. Standard 4-20mA output signal.

Code	MODELS
06750004	SDI-12 transmitter

## H2O transmitter



Transmitter for reading ground water content sensors (VWC: Volumetric Water Content) or leaf wetness (Phytos: Leaf Wetness Sensor). It is necessary to determine which sensor model will be used. Standard 4-20mA output signal.

Code	MODELS	Remarks
06750001	H2O transmitter (for 2 sensors)	Does not include sensors.
06750002	H2O transmitter (for 3 sensors)	Does not include sensors.

## pH and EC transmitter (4 electrodes)



Double transmitter for one pH and one electrical conductivity (EC) sensor reading in the irrigation water. It adapts the signals from the sensors and generates standard 4-20 mA output values to be read by the controller.

It is also available a model for a single pH sensor, and one for a single EC sensor.

Code	MODELS	Description
06440001	pH/EC transmitter	For on PH and one EC sensor.
06440002	pH transmitter	For one PH sensor.
06440003	EC transmitter	For one EC sensor.

## pH and EC transmitter (2 electrodes)



Transmitter with same functions as the previously specified one but with 2-electrode EC sensors (K=1) with temperature compensation by Pt100 or Pt1000 (optional). It admits different brands of EC sensors, but their performances have to be previously checked.

Code	MODELS	Remarks
06640002	pH/EC transmitter 2 electrodes Pt100	By default Pt100, specify if you need Pt1000 (06640001).
06640004	EC transmitter 2 electrodes Pt100	By default Pt100, specify if you need Pt1000(06640003).
06640006	Option screen for transmitter 2 electrodes	8-digit and 3-keys display.
06640007	Transmitter 2 electrodes reader	2 electrodes transmitter required.

## 4-20 mA pulsed signal transmitter



The transmitter converts the pulses of fertilizer or acid injection into 4-20 mA outputs to manage injectors with a frequency inverter.

For use with devices that do not have analogue outputs at 4-20mA, for example, the Agrónic 2500 or the Agrónic 5500.

Code	MODELS	Remarks
06750005	Pulsed signal transmitter	For 3 signals.

## Pulse frequency transmitter



Transmitter that converts frequency meter signals to voltage-free contact pulses.

It allows for working with frequency meters in controllers that only have pulse meter inputs (such as the Agrónic 2500)

The controller leaves the factory adjusted to the frequency/pulse conversion specified by the user, and it can be configured using a Module Reader.

Code	MODELS
06750012	Pulse frequency transmitter

## Voltage / current converter transmitter



Dual transmitter to convert 2 analog inputs from 0-10V to 4-20mA or 0-20mA outputs depending on a circuit selector.

Code	MODELS
06140185	Voltage / current converter transmitter

# 11 COMPLEMENTS

## Connection elements between PC and Agrónic



06140247



06140218

Code	MODELS	Remarks
06140247	Communication box RS485 / RS232 with 6-pin round connector	To convert the port RS232 to RS485 in Agrónic 4000. Power supply 220/12 Vdc 2 A required.
06140218	Communication box RS485 + USB without power supply	Power supply 220/12 Vdc 2 A required.
06140210	Power supply 220/12 Vdc 2 A	
06140328	4G Lite Router	

## Avisador GSM



Unit designed to send SMS messages to GSM mobile phones, once the signal from any external elements to which it is connected is received. It can be used with any system that needs to send warnings or alarms to mobile phones.

Code	MODELS	Remarks
06510001	Avisador GSM 12 Vdc	A GSM modem is required.
06510002	Power supply 220/12 Vdc 1 A	Necessary, if 12 Vdc are not available.
06510003	Avisador GSM power supply with net failure detection	For warning in case of net failure detection .
06140176	GSM modem with antenna and power supply 220 Vac or 12 Vdc	

## Radio controls



Controller for directional communication based on master-slave operation. Models of 6 digital inputs / outputs. Radio coverage study between both points previously required.

Code	MODELS	Remarks
06140344	Radiocontrol 6E-6S 220 V	Omnidirectional Antenna 169 MHz
06140348	Radiocontrol 6E-6S 12V	Omnidirectional Antenna 169 MHz
06140347	Radiocontrol 6E-6S 220 V Master Auxiliary	
06140349	Radiocontrol 6E-6S Din Rail Mounting	Omnidirectional Antenna 169 MHz
06140346	Radiocontrol 6E-6S 220 V	Directive Antenna 869 MHz
06140345	Radiocontrol 6E-6S 220 V	Omnidirectional Antenna 869 MHz
06144006	Radiocontrol AT-4 12 V	Omnidirectional Antenna 169 MHz
06144007	Radiocontrol AT-4 220 v	Omnidirectional Antenna 169 MHz

## Radio modems *(For export, consult annotation on the last page)*



**Communication point to point:** 446 MHz radiofrequency equipment from 1 W to 4 W for connection between point-to-point devices over long distances. 12 Vdc or 220 Vac power supply with RS485 connection.  
**Communication point to multipoint:** Same as above, except for connection between point to multipoint devices and repeater option at long distances.

### MODELS

Radio modems of various types. Contact to know the best solution to each need

## Agrónic Radiomódem 433 MHz *(For export, consult annotation on the last page)*



It allows the interconnection at 433 MHz free-licensed frequency band between an Agrónic and its PC program, or between an Agrónic and an EAM / EAR.

Code	MODELS
06580081	Agrónic Radiomódem 433 MHz





Code	MODELS
06131016	Electromagnet diesel stop
06140165	Latch relay with circuit
06140277	Aquative latch solenoid 12 Vdc 3 V 2 h
06140275	Sirai electrovalve 12 Vdc
06140276	Sirai electrovalve 24 Vac (50Hz)
06140351	Sirai electrovalve 24 Vac (60Hz)
06140278	FIP electrovalve 12 Vdc
06140279	FIP electrovalve 24 Vac
06140342	Baccara electrovalve 24 V Hz

## Diodes box



The diode box allows for electric separation of the solenoids, thus preventing them from interfering during the starting/stopping manoeuvres.

Code	MODELS
08140025	Diodes box 9 outputs
08140026	Diodes box 19 outputs
08140027	Diodes box 28 outputs
08140028	Diodes box 38 outputs



Protection of inputs, outputs or power supply for installations that may be affected by overvoltage or electric shocks.

Code	MODELS	Remarks
06140412	Output power 24 Vac or 12 Vcc + 10 Output relays protection	For all controllers except latch models.
06140413	General power 12 Vdc + 10 Digital inputs protection	For all controllers.
06140414	General power 230 Vac + 10 Digital inputs protection	Only for Agrónic 4000 and Agrónic 7000.
06140415	10 relay output protection extension	For controllers with more than 10 outputs.
06140173	RS485 line protection	
06140174	Protection for EAM (Monocable)	
06140188	Analog input protection	



Code	MODELS	Remarks
06131012	Regulating thermostat + 3 m sensor	Available at 220 Vac and 12 Vdc.
06140221	Pulses splitter	
06140119	Single phase power regulator	
06145401	Isolating transformer 230V/230V	
06145400	Isolated DC-DC DIN transformer 12V 5A	
06145100	Repeater galvanic isolator RS 485	

# 12 REMOTE MANAGEMENT

Through our tools you can collect and analyze of physical or virtual data from a farm, to make the most appropriate decisions for optimizing irrigation.

Through sensors connected to the controllers we collect data on the state of the plant, soil, climate and consumption, and transfer them to the cloud along with data from external API's and remote sensing.

Our management tools allow access to this processed and visualized information through status graphs, interactive maps, detailed records, and so on.

The user, from a computer, tablet or smartphone, can consult the state of his installation, analyze it and adjust the amount of water and fertilizer according to the needs of the crop.

Using the tools has no cost; the price will depend on the option and/or license chosen for the controller, and depending on the tool, the cost of storing the controller in the cloud.

Each tool has different features:



The Agronic Web will soon stop working

	SMS	Agronic PC	Agronic APP / Agronic APP 2.0	Agronic Web	VEGGA
<b>Agrónics available</b>	2500   4500   4000   5500   7000   Bit	2500   4500   4000   5500   7000   Bit	2500   4500   4000   5500   7000   Bit	2500   4000   5500   7000   Bit	2500   4500   4000   5500   7000   Bit
<b>Query</b>	Yes	Yes	Yes	Yes	Yes
<b>Edition</b>	Yes	Yes	Yes	Yes	Yes
<b>Direct manual commands</b>	Yes	Yes	Yes	Yes	Yes
<b>Configuration</b>	-	Yes	-	Yes	Yes
<b>Graphics</b>	-	Complex	Simple	Complex	Complex
<b>Maps</b>	-	Synoptic	Yes	Interactive	Interactive
<b>Agroclimatics indices</b>	-	-	-	Calculations through sensors	Yes <sup>(1)</sup> Agroclimatic metrics
<b>Audits</b>	-	-	-	-	Yes <sup>(1)</sup>
<b>Reports and analysis</b>	-	-	-	-	Yes <sup>(1)</sup>
<b>Data export</b>	-	Yes	-	Yes	Yes <sup>(1)</sup>
<b>Farm Management Module: field notebook connected to SIEX</b>	-	-	-	-	Yes <sup>(1)</sup>
<b>IRRIDESH module: irrigation forecast</b>	-	-	-	-	Yes <sup>(2)</sup>
<b>AGRIGENIO module: determination of pest and disease risks</b>	-	-	-	-	Yes <sup>(2)</sup>
<b>IRRIGATION MANAGER module: fertigation planning</b>	-	-	-	-	Yes <sup>(3)</sup>
<b>Multi-user</b>	-	-	-	Yes	Yes
<b>Configurable alerts</b>	-	-	Yes	-	Yes
<b>Notifications</b>	By SMS to mobile	Inside the program	Mobile pup-ups and audible alarm	Inside the application	Inside the application
<b>Devices</b>	Mobile	PC	Mobile	PC	PC / Tablet

<sup>(1)</sup> Functionality available under Expert Rate.

<sup>(2)</sup> Functionality available under Expert Rate and additional subscription.

<sup>(3)</sup> Functionality available under Platinum Rate.

Check rates at [www.veggadigital.com](http://www.veggadigital.com)

## SMS

Through SMS messages, you can perform direct actions, start, stop or modify a program, put the controller in “Stop”, etc...

In addition, the mobile can receive alarms, incidents and controller performance.

You can also send messages to other controller to synchronize or adjust irrigation between them.

### NECESSARY ITEMS TO ADD TO THE CONTROLLER

Modem link / SMS messages option



## Agrónic PC

Program for Windows, which allows you to configure, program and consult all the features of the controller in real time, in a more intuitive and easy way.

These are its benefits:

- To store data obtained from Agrónics, it makes use of a Database system in SQL.
- It consists of two applications: Agrónic Communications PC-COM (manages the communications between the PC and the controllers) and Agrónic PC Management program (the user manages, programs, and views the controllers).
- Consultation, editing and configuration of all irrigation sectors, programs, determining factors, filters, fertilizers, pivots, sensors, and external communication modules.
- Consult the information in two different ways: by controller, to have an overview of the Agrónics; and by synoptic, for the view of plots, controller, and sensors on a map, photo, or drawing.
- Record of all the actions that the Agrónics carry out, being able to export them in text files, or in Microsoft Office Excel format.
- Obtaining accumulated and historical data by being able to export them to text files, or in Excel format, to be handled from other programs.
- All anomalies received have to be confirmed by the user. If there are new anomalies, an indicator light for new anomalies is activated.
- Possibility of organizing and ordering the programmers in folders.
- Detailed controller information on cards that facilitate its interpretation through graphs, progress bars, etc.



### NECESSARY ITEMS TO ADD TO THE CONTROLLER

Cloud + PC license (Agrónic PC program)

Choose option to connect with the controller:

Modem/SMS messages link option	For long distance, even different countries	With this option, the controller must have a SIM card with an M2M contract. By default, we deliver an M2M SIM card with Movistar coverage inside the device. If you would like, you may use your own.
WiFi link	For short distance with local network or long distance by Internet	
USB link RS485 link	For a local or medium distance management	
Radio option 433 MHz	For distances from 1 to 20 km	Depending on orography.

To download the Agrónic program for PC, enter the following address in your computer's browser:  
[www.progres.es/descargas/agronicpc.zip](http://www.progres.es/descargas/agronicpc.zip)

# Agrónic APP

Mobile application that allows you to manage the irrigation and fertilization of plots where a controller is installed from anywhere. Available for Agrónic 2500, Agrónic 4000, Agrónic 5500, Agrónic 7000 and Agrónic Bit.

There are its benefits:

- Detailed information on the status of programs, sectors, fertilizers, sensors, conditions, misting and water mixing.
- Modification of controller programming.
- History of the daily accumulations of sectors and counter sensors, and daily average of all analog sensor readings.
- Notifications in the mobile status bar and alarms to notify you of important records, even if the application is closed.
- Direct manual orders to start or stop, put out of service or suspend programs, sectors, conditions, nebulizations, etc.
- Graphs to better visualize the daily accumulations of sectors and sensors.
- Record of events and anomalies that have occurred on the controller.
- Pivot control.



Application available for Android and iOS. Download it on Google Play and Apple Store by searching under the name Agrónic APP. More information at [www.progres.es/en/agronicapp](http://www.progres.es/en/agronicapp)

# Agrónic APP 2.0

The Agrónic APP 2.0 marks a new phase in the evolution of the Agrónic APP. Initially it will be available exclusively to Agrónic 4500 users. Launch planned from the first quarter of the year.

This initial phase release will focus on the essential and most used functions of the Agrónic 4500, providing users with fast and efficient access to remote irrigation and fertilization management from their mobile devices.

With a focus on continuous improvement, Agrónic APP 2.0 will undergo regular updates in the coming months. These updates will be directed towards the progressive incorporation of all the functions present in the Agrónic 4500, and later, they will be extended to the entire line of Agrónic controllers.

The Agrónic APP 2.0 has been designed according to the requirements of our clients, prioritizing a more intuitive user experience. This app will not only simplify essential functions but will also introduce new features and tools to significantly improve remote management through the app.

More than a simple tool, the Agrónic APP 2.0 is committed to always being in constant evolution. We will be attentive to our customers suggestions and will take advantage of the latest technological tools to offer an even more advanced and efficient agricultural experience.

We will soon share specific details about the new features that will be incorporated in successive updates.



Application available soon for Android and iOS. Download on Google Play and Apple Store by searching with the name Agrónic APP 2.0

## NECESSARY ITEMS TO ADD TO THE CONTROLLER

### Choose license to use:

Cloud option (Web database)	For Agrónic APP and VEGGA.
Cloud + PC option (Agrónic PC program)	For Agrónic PC and/or Agrónic APP and VEGGA.

### Choose option to connect with the controller:

Modem/SMS messages link option	With this option, the controller must have a SIM card with an M2M contract. By default, we deliver an M2M SIM card with Movistar coverage inside the device.
WiFi link option	
Register the controller in the cloud	At <a href="http://app.veggadigital.com">app.veggadigital.com</a>

# VEGGA

Until now, Agrónic Web could be used to control and manage irrigation and fertilization on the plots on which an Agrónic controller is installed. Agrónic has now taken a step forward to further facilitate the work of farmers installers, large farms, cooperatives, consultants, etc., thus VEGGA has evolved, the evolution of Agrónic Web.

VEGGA is the 360° platform that comprehensively and sustainably manages crops and farms, with a single tool.

It was created from the union of three leading companies in the agricultural sector: Regaber, IQV and Progrés. The common purpose is to transform the agricultural sector by sharing information on agronomic knowledge and digital agriculture, using the best technologies available on the market.

This new platform will be made up of different modules:

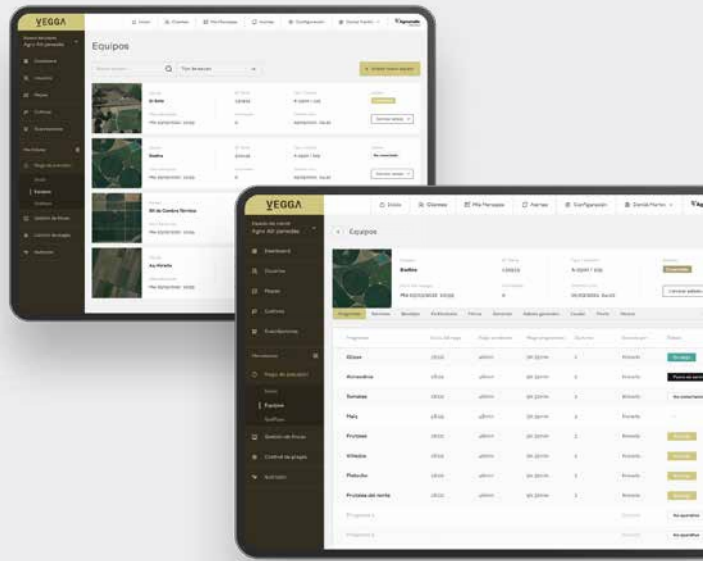
- Precision irrigation with new functionalities: generation of irrigation audits and reports, visualization of virtual weather stations, new agroclimatic indices, etc. (these functionalities will be incorporated during the 1st quarter of 2024).
- Farm management: filed notebook connected to SIEX (expected in July 2024).
- IRRIDESK (under additional subscription): a digital twin that calculates the water balance in real time based on crop data, sensors, weather prediction and remote sensing, allowing irrigation to be automated through Agronic controllers.
- AGRIGENIO (under additional subscription): a pest and disease prediction tool for olive, vineyard and tomato developed by BASF.
- IRRIGATION MANAGER: an advanced irrigation and fertilization management tool that includes mass programming of controllers, generation of advanced audits, stock management and semi-automatic fulfillment of fertilizer orders.

The platform will adapt to each business, as it allows you to choose the necessary modules. Check the prices of the rates and modules at [www.veggadigital.com/vegga-prices](http://www.veggadigital.com/vegga-prices)

In addition, you will have direct contact with a wide range of external advisors from different areas within the agricultural field. It will be a meeting point for the main players in the sector where the user can share their data with advisors or installers, so that they can help them make the best decisions with the aim of managing their production in a sustainable and efficient way.

Soon the Agrónic Web will stop working and all users will have to migrate to VEGGA.

The items necessary to add to the team do not change, there are the same as until now:



## NECESSARY ITEMS TO ADD TO THE CONTROLLER

### Choose license to use:

Cloud option (Web database)	For Agrónic APP and VEGGA.
Cloud + PC option (Agrónic PC program)	For Agrónic PC and/or Agrónic APP and VEGGA.

### Choose option to connect with the controller:

Modem/SMS messages link option	With this option, the controller must have a SIM card with an M2M contract. By default, we deliver an M2M SIM card with Movistar coverage inside the device.
WiFi link option	
Register the controller in the cloud	At <a href="http://app.veggadigital.com">app.veggadigital.com</a>

To access the VEGGA platform or for further information, please see [www.veggadigital.com](http://www.veggadigital.com).

# Terms of sale

## Catalogue observations

Freight charges will be paid by the customer both in orders as in after-sale services, although they are in warranty.

Regarding controllers and options via radio (Agrónic Radio, AgroBee-L and AgroBee, Radiomódems, etc.) Progrés reserves the right to decide in which countries it will be supplied and at what frequencies. Make a consultation with Progrés.

We supply other controllers, options, accessories and sensors than described on this catalogue (they are less usual). Contact us to ask for more information or assessment, at +34 973 320 429 or by sending an email to [info@progres.es](mailto:info@progres.es)

Sistemas Electrònics Progrés, S. A. can change this catalogue without notice. You can always find the most up-to-date version in [www.progres.es/en/customer-support/documentation/catalogs](http://www.progres.es/en/customer-support/documentation/catalogs)

## Distribution

As manufacturers of irrigation controllers, we only supply to companies or professionals who are dedicated to installation of irrigation systems, previously homologated by us. See “Sale requirements” and “Export requirements”.

## Warranty

Two years warranty, from the sale date, against all manufacturing defects, excepting the equipment or accessories not made by us (identified with \* in the current price list), which will have the warranty offered by the manufacturer, as long as the sticker that Progrés add remains intact.

The indemnification for direct and indirect damages caused by the use of the equipment or accessories manufactured or sold by Progrés is excluded from the warranty.

Any controller which is manipulated, or its cards have been changed, will be exempt from warranty.

The warranty covers the repair, or replacement if necessary, of the damaged equipment at our facilities in El Palau d'Anglesola (Spain), where the equipment have to be sent to be repaired. We make no repairs or replacements “in situ”.

Freight charges will be paid by the customer, although they are in warranty.

## Claims and returns

We do not accept material claims after 15 days from the invoice date. **We do not accept returns of material after 1 year of its sale.**

The credit notes will only be made by controllers or their options, that have been not working. With the exception of software options marked as “It is activated by a code” in the Price List which will not be paid in any case. The return of accessories and other material such as batteries and batteries is not allowed.

## After-sales service

The equipment to be repaired or extended must be sent to our facilities properly protected, and with a document with customer's data, and information describing the problem detected with the equipment. Freight charges will be paid by the customer.

The options that you want to add in an equipment after its sale are always related to a specific controller through its serial number.

If the client requests a repairing budget, it will always be approximate, he must request it in writing, and we will not take over the possible difference in the cost. The repair will not be carried out until it has been accepted by the customer. In case of not receiving a response within 3 months, the material will be returned to its sender, without repair.

Once the equipment is evaluated, if the technicians decide that it is Non-Repairable, the customer will be informed, and the goods will be returned using the next shipment of material.

In no case we will store material from our customers for more than 1 year from its reception. If no news are received from the sender within this period, the material will be discarded in the most properly way.



Reparations have one-year warranty, except if equipment is more than 5 years old, when each case will be studied.

By raising an order or sending an equipment to repair or extend, you accept all conditions.

You can find the most current version of this document at [www.progres.es/en/sales-conditions](http://www.progres.es/en/sales-conditions)





Polígon Industrial, C/ de la Coma, 2  
25243 El Palau d'Anglesola | Lleida | España  
Tel. (+34) 973 32 04 29 | info@progres.es

[www.progres.es](http://www.progres.es)

R-2499

