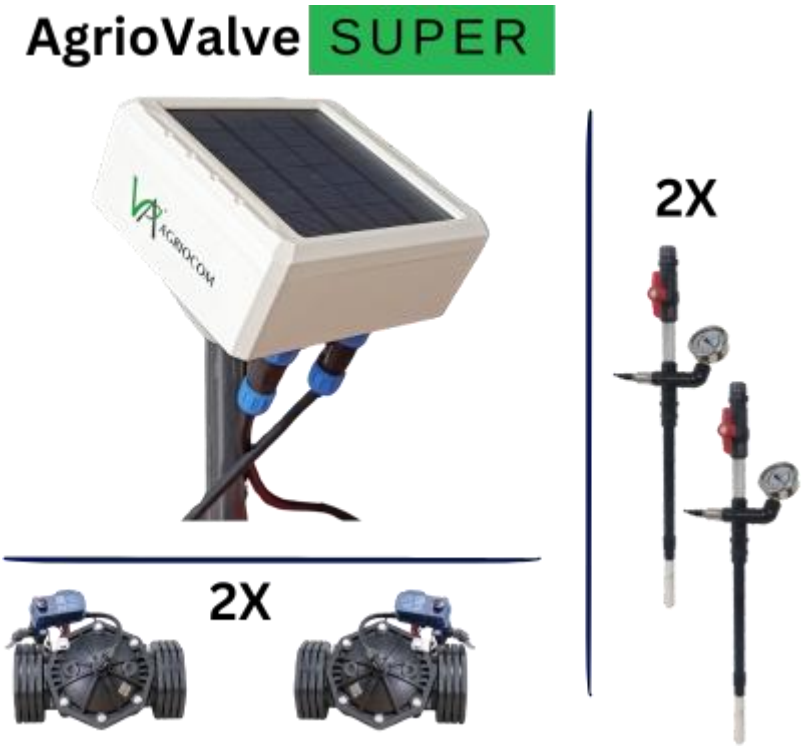
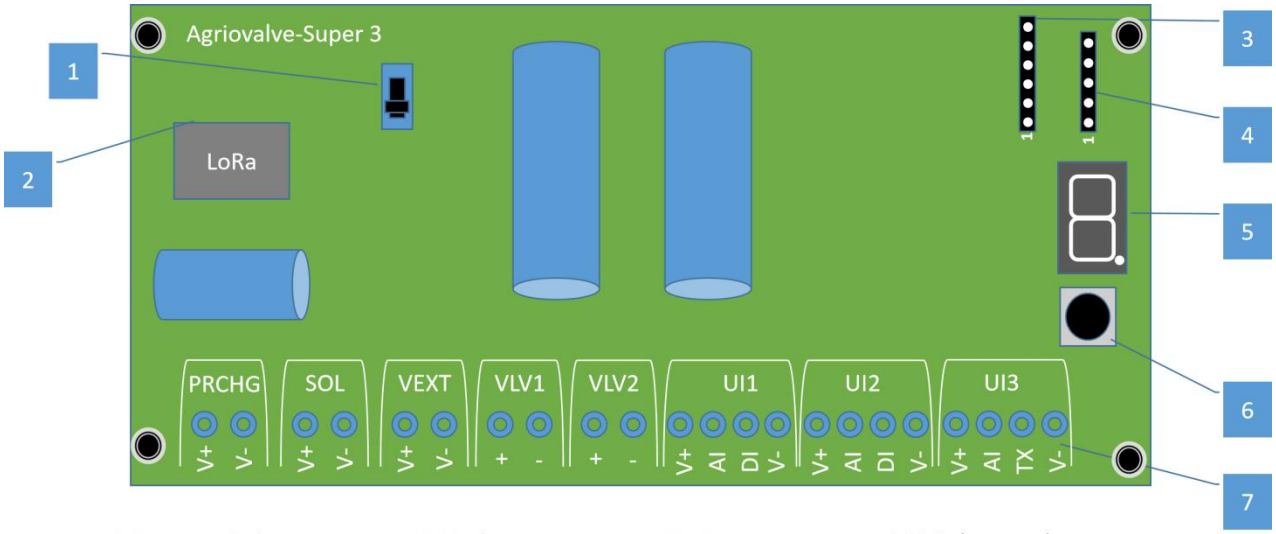




1 Power switch
2 LoRa module
3 Programming cable
4 USB cable

5 Display
6 Test button
7 Cable connectors

V+ Sensor power
AI Analog input
DI Digital input
V- Ground
TX One wire input

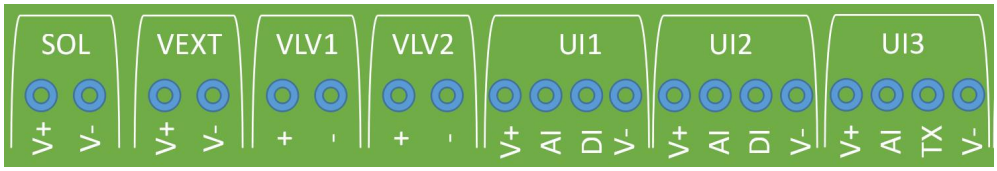
SOL Solar panel
VEXT External power 5-12V
VLV1 Valve 1
VLV2 Valve 2
PRCHG external charger

1. Technical parameters

Model	**ACSV12**
Valve outputs	
Number of valves	2
Type of valves	Latching valve 9 ~ 18V DC
Sensor inputs	
Analog inputs	3
Digital inputs total	3, can be used for any sensors with DGT-V protocol 2 can be used for counters like water, rain, wind 1 can be used for 1-Wire (RHT sensor)
RS485	1
Communication	
Communication standard	LoRa EU433 MHz / CN470 MHz / US915
Communication interval	1-30 min
Communication distance	5 ~ 10 km *
Power supply options	
- **Primary battery**	Not needed
- **External power supply**	5V 1A
Environmental	
Temperature range	-20℃~ +80℃
Protection class	IP-65

* Communication distance depends on the environment and may be shorter than declared.

2. Sensor inputs



UI #	Input label	Functions	Supported sensors	Default Sensor
UI1	AI	Analog	Any analog sensor	Analog
	DI	TTL	Any DGT-V sensor, Decagon GS3	Counter normally open
		Counter	Rain gauge normally open	
			Wind speed normally open	
			water counter normally open	
UI2	AI	Analog	Any analog sensor	Analog
	DI	TTL	Any DGT-V sensor, Decagon GS3	Phytosensor
		Counter	Rain	
			Wind speed	
			water counter	
UI3	AI	Analog	Any analog sensor	Analog
	TX	One-wire	AM2303 RHT sensor	AM2303 RHT sensor
RS485	A/B	RS458	Any RS485 sensors	Not implemented

Notes

1. V+ is voltage from the battery. It is applied only during measurements. Excitation time (time between applying V+ and taking measurement) is configurable
2. V- is ground
3. If both sensors, analog and digital are connected to a single UIx, V+ and V- can be shared.

Supported digital sensors

In the above table, column default sensor shows what kind of sensor can be connected to a particular channel by default configuration. This can be changed from web interface. Customer can select any sensor listed in the column supported sensors. Please note, if you changed the type of sensor for an input, old data may be not visible on the web application because new sensor will use same logical channel as the old one in the database.

Installation.

1. Fix AgrioValve on a pole and orient so that the solar panel is faced south
2. Connect one or 2 valves

AgrioValve	Valve
Valve 1 + (red)	Valve 1 + (red)
Valve 1 - (black)	Valve 1 - (black)
Valve 2 + (red)	Valve 2 + (red)
Valve 2 - (black)	Valve 2 - (black)

3. Connect sensors if necessary
4. Chec that AgrioValve is online and follow the cloud application to add it to an irrigation plot.

AgrioValve does not require any maintenance

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