



SOLEM

CONNECTED IRRIGATION MADE EASY

CONNECTED AGRICULTURE

HORTICULTURE | ARBORICULTURE | VITICULTURE

solem-irrigation.com

2026 EDITION

FREE APP & PLATFORM



THE APP FOR MANAGING AGRICULTURAL IRRIGATION ON YOUR LAND

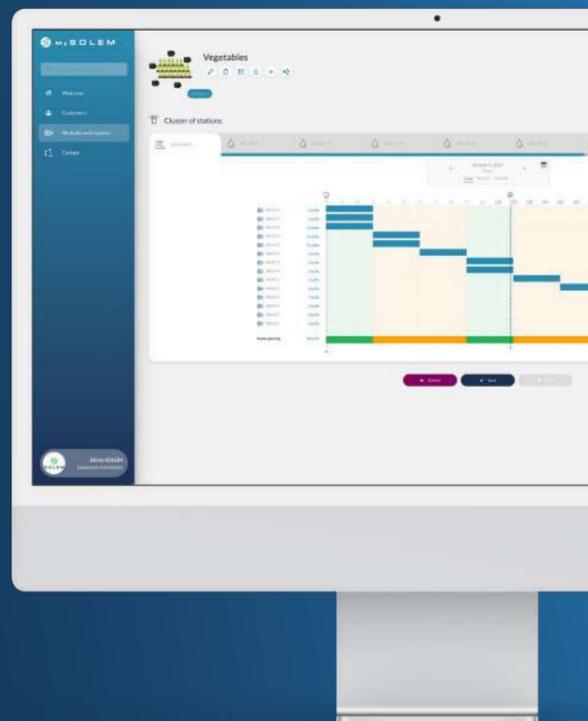


Save up to **50% of battery life** on battery-powered products by switching on **Eco Mode** in winter and during the irrigation season.



THE EXPERT PLATFORM FOR PROFESSIONALS

Use **MySOLEM CANOPY** and the **CLUSTER** feature to benefit from our platform's advanced functions free of charge, such as site mapping, user access management, quick scheduling across all of your land, etc.

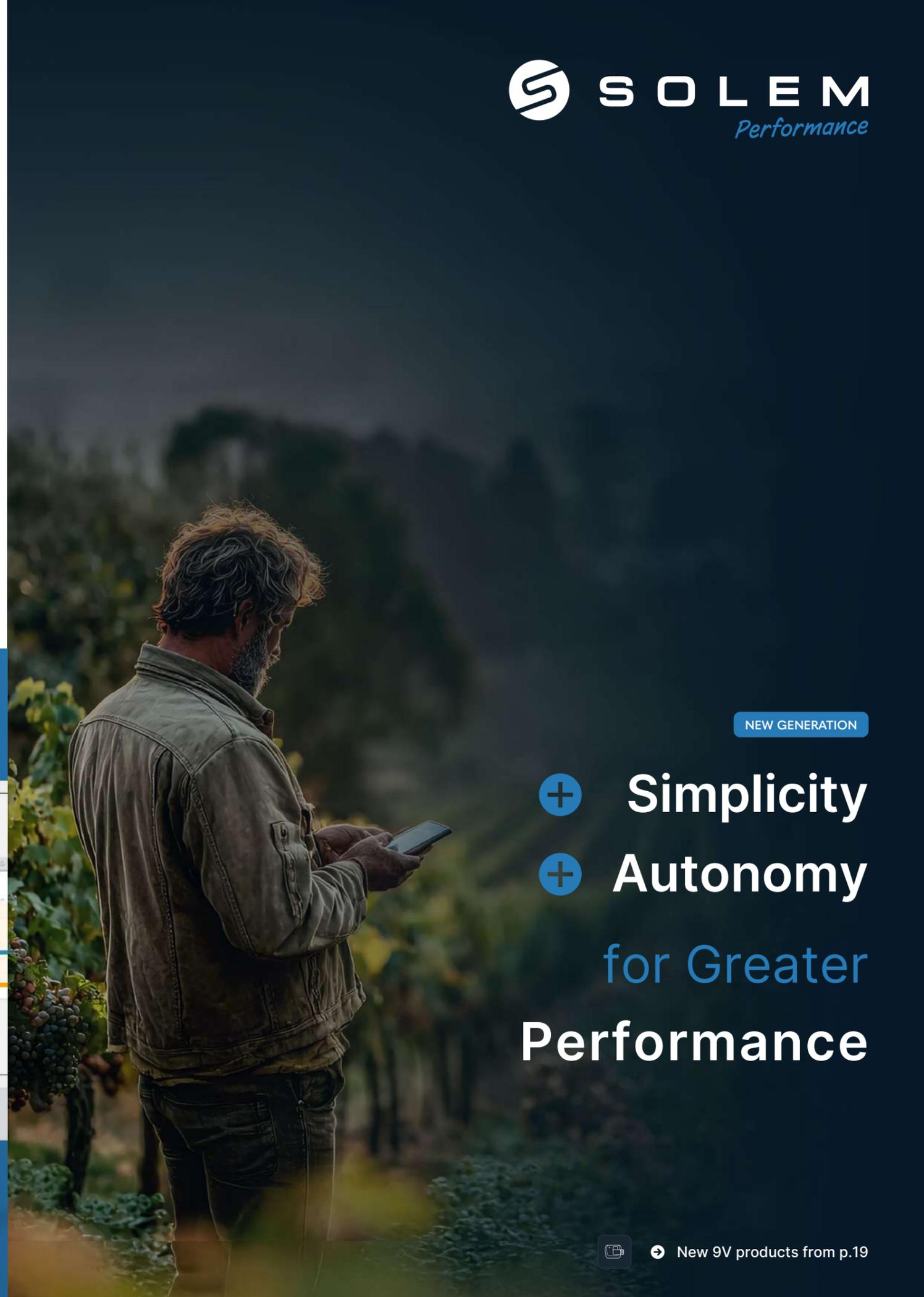


NEW GENERATION

+ **Simplicity**
+ **Autonomy**
for **Greater Performance**



New 9V products from p.19



LoRa RANGE

NEW GENERATION



GATEWAYS

- 16 Irrigation Station 4G Gateway & Climate Data
- 17 LR-BST-REACT 4G Gateway
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CONTROLLERS

- 19 LR-PM 9V, for Master Valve & Pump
- 20 LR-AG 9V Controller
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CONNECTED SENSORS

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- 29 LR-MS SDI12 9V Sensor Module
- 30 Sensors Individual Sensors or in Kit
- 36 LR-PR 9V Connected Pressure Sensor Module

Bluetooth RANGE



CONTROLLER

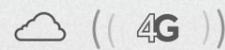
- 39 BL-AG 9V Controller

Reliable & wireless installation

Manage & automate your entire installation remotely.

800m* : 25 modules

MySOLEM



Program your irrigation using your own weather data

Automate the control of your valves based on your sensors data

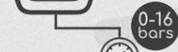


LoRa

Guarantee the proper operation of your valves

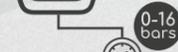
Ensure the proper operation of your pump

LR-PR



0-16 bars

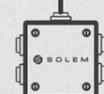
LR-PR



0-16 bars

Filtration

Relay 220V



LR-PM

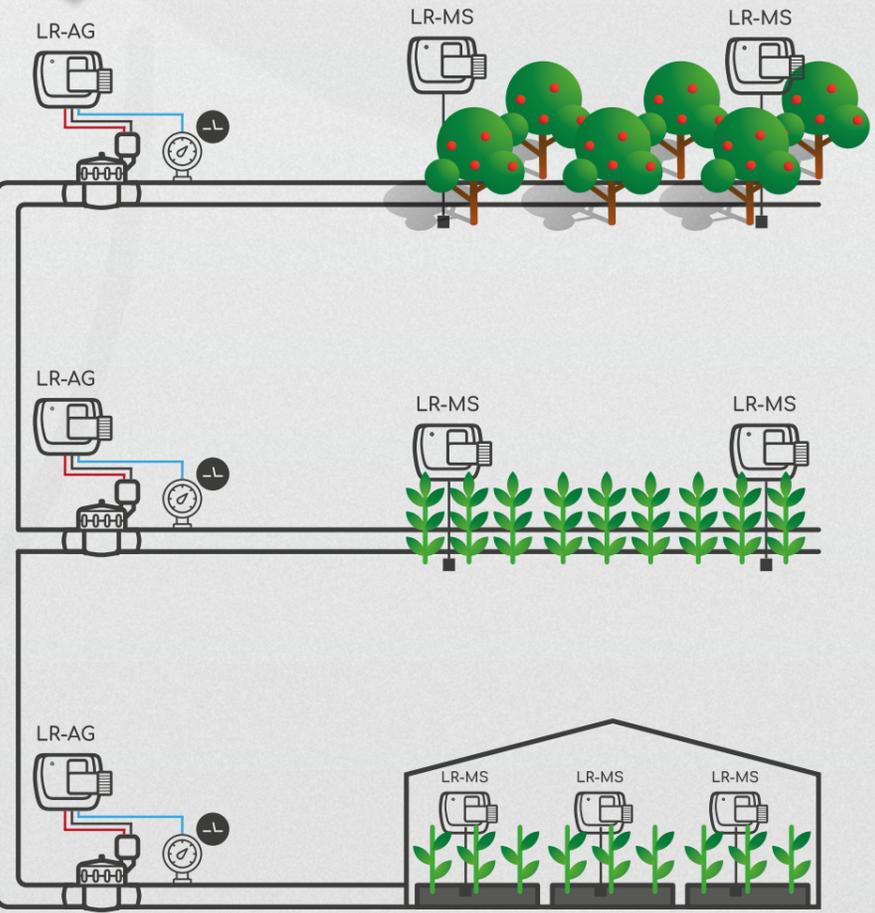


Monitor & register your water consumption

Be immediately alerted in case of leak risk

Automatically synchronize the programming of your master valve with your controllers

Deliver the right amount of water at the right time





MySOLEM Canopy

Large-scale irrigation

-  **Geolocate** your irrigation modules
-  **All your data at a glance** via your dashboard
-  **Assess the impact and development** of your irrigation using the satellite view
-  **Share access to your equipment** with your staff
-  **Real-time monitoring and access to data logs** for your irrigation
-  **Check the effectiveness** of your irrigation via **supervision** of your water system



SCAN HERE
TO LEARN ABOUT
CANOPY



Mobile Canopy

Find your crops on the MySOLEM app, and work with your teams quickly and effortlessly.

GROUP YOUR STATIONS TOGETHER

All your schedules at a glance



CLUSTER feature

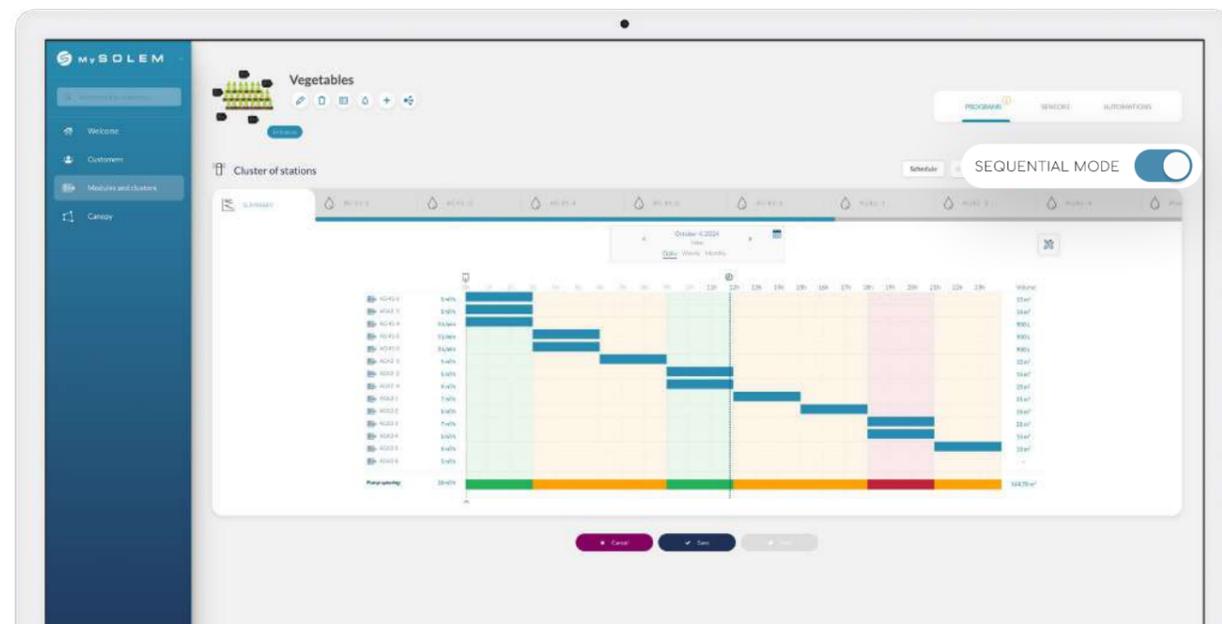
Group all the stations on the same primary network together to create a single station:

-  Overview of all of your irrigation stations
-  Display your daily water consumption per station and overall
-  Be notified in case of low flow rate or high flow rate during your irrigation schedule.
-  Automatically synchronise the master valve and avoid the risk of overpressure.
-  View your water budget's impact on scheduling.

Automatic Sequential Mode

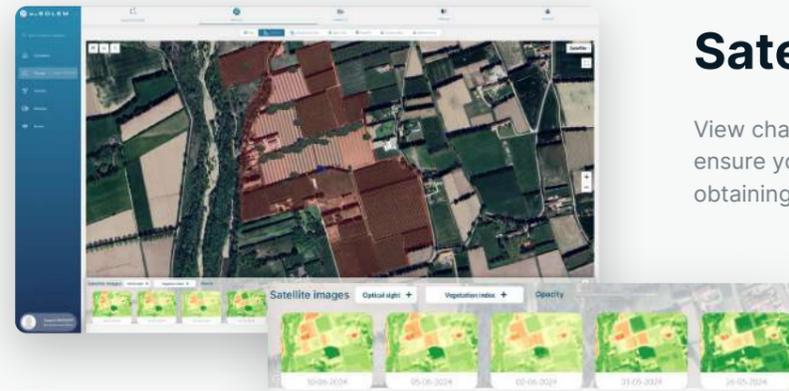
with parallel programming

Enabling automatic sequential mode means you can easily schedule your stations by automatically sequencing the desired stations. Only compatible with the LR-AG and LR-AG-ECO controllers.



ENHANCEMENTS TO MYSOLEM

Features for precision irrigation

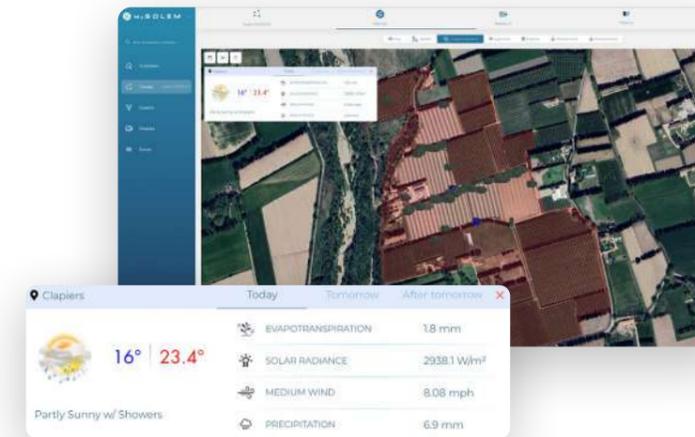


Satellite view

View changes to your land's vegetation index to ensure your irrigation is having the desired effect, by obtaining satellite images (every 5 days at most).

Evapotranspiration

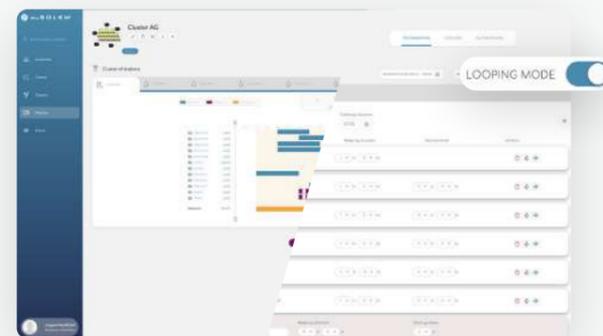
Switch to precision irrigation by taking evapotranspiration into account.



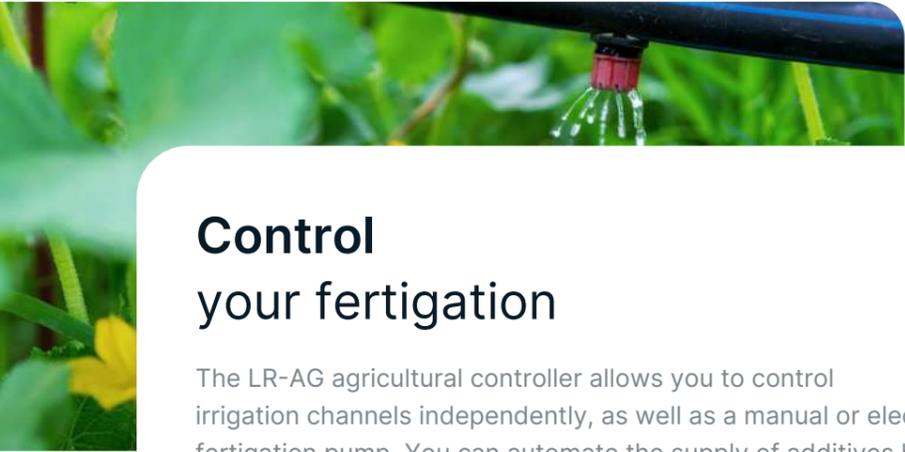
Looping

Schedule your LR-AG watering times per station (over 24 hours) and create your initial loop, running for a maximum of 40 days. Then repeat this loop indefinitely. Change the order in which your stations start watering, add the associated water flow rates, and benefit from a greater number of scheduling windows per station.

Feature available only in a Cluster of LR-AG and LR-AG-ECO controllers

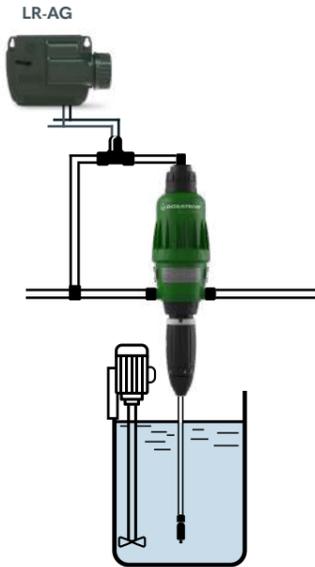


MANAGING FERTIGATION with the LR-AG



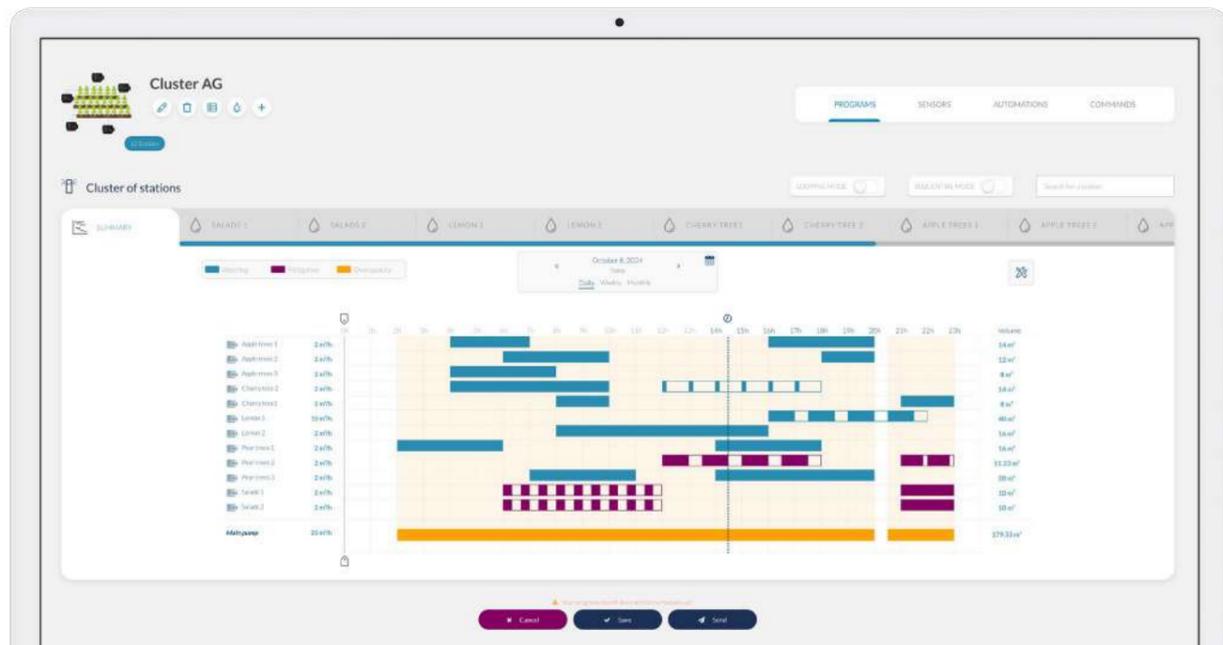
Control your fertigation

The LR-AG agricultural controller allows you to control irrigation channels independently, as well as a manual or electric fertigation pump. You can automate the supply of additives by adjusting the LR-AG controls within a much wider range.

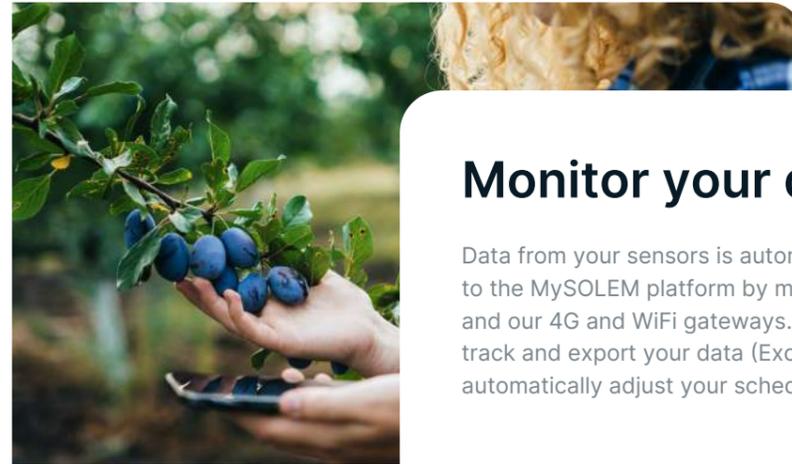


Summary view

The CLUSTER summary provides an at-a-glance overview of your standard scheduling and that of your fertigation (the purple coloured rows). Use it to check that your schedule won't impact your master valve's or pump's flow rate.



MYSOLEM INTELLIGENCE Use sensors to automate system actions



Monitor your data

Data from your sensors is automatically uploaded to the MySOLEM platform by means of the LR-MS and our 4G and WiFi gateways. You can consequently track and export your data (Excel, CSV, JSON) and automatically adjust your schedules based on it.

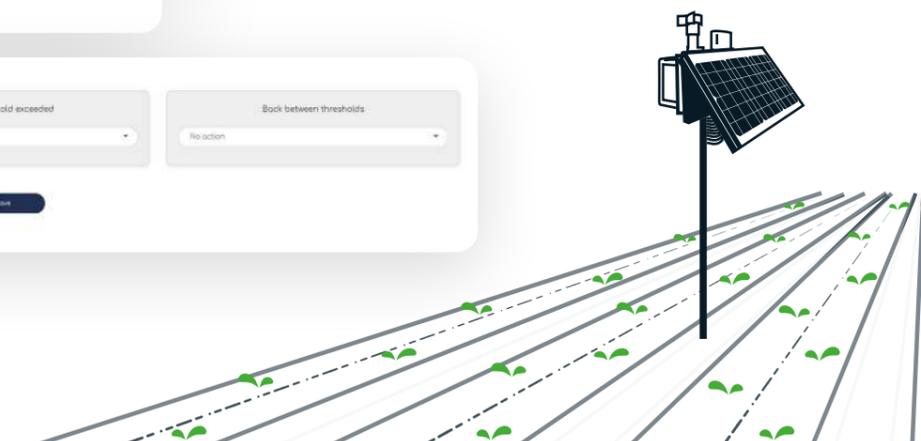


Exploit your data to automate your irrigation

By setting min/max thresholds for your sensors, you can automate actions on your controllers using the MySOLEM platform.

Turn a valve or a pump on or off

Turn all your boxes off automatically



Control your irrigation system wherever you are

Connect your modules using LoRa™ radio technology so installations can be controlled remotely. Simply deploy SOLEM controllers in the field without worrying about additional wiring or a power supply.

1



Download the free app

Install your products in a few minutes, set up your controls on-the-spot or remotely.



2



Connect your Gateway

Install your WiFi or 4G Gateway to control your modules remotely!

3



Connect your modules to your Gateway

Pair your controllers and sensor modules to your Gateway in a few minutes. You're all set.

Easily manage your water consumption remotely!



Connect a water meter to your controllers to monitor your water consumption.



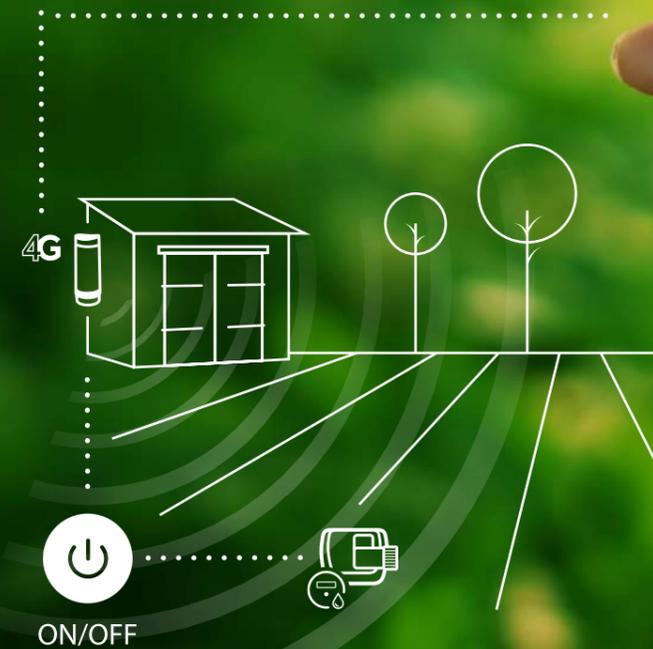
Use the MySOLEM platform to automatically stop your pump or master valve.



Set thresholds to suit your needs.



Detect leaks and save water.



NEW

Irrigation Station

4G Gateway & Weather Station
Control your modules remotely



The irrigation station is an outdoor 4G gateway that communicates through its SIM card. It is entirely powered by its own solar panel, and comes equipped with four sensors. Two-in-one, it is a weather station providing weather data, and a gateway able to remotely manage more than 200 irrigation stations over LoRa™ radio communications. Send your schedules and settings easily, and receive notifications promptly, wherever you are. Lastly, you can collect all the data from your sensors for an at-a-glance overview.

| | | | |
|-----------------|--------------------------|------------|----------------------|
| Range to module | 800* m / 875* yds | Connection | 4G |
| Modules | up to 24/99 | Mounting | Pole provided |
| Power | | Control | Remote |

NEW

LR-BST-REACT

4G Gateway
Control your modules remotely

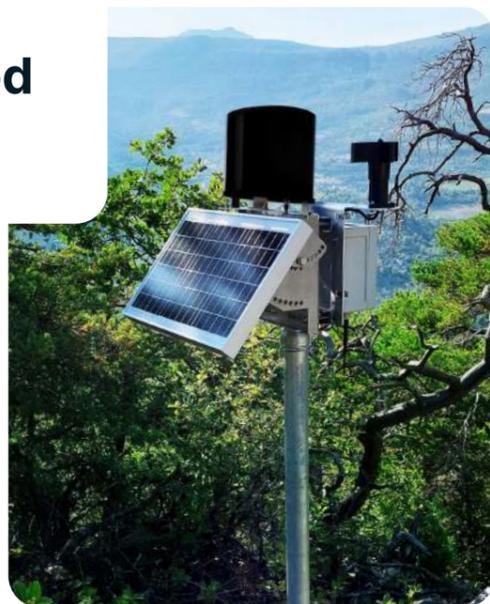


The LR-BST-REACT is an outdoor 4G gateway that communicates through its SIM card. It is able to remotely manage up to 25 or 100 modules. It is ideal for isolated green spaces with no WiFi. Plugged into the mains or fully self-sufficient when connected directly to a solar panel, it is ideal for spaces that have no power supply. Send your schedules and settings easily, and receive notifications promptly, wherever you are.

| | | | |
|-----------------|--------------------------|------------|-------------------------|
| Module distance | 800* m / 875* yds | Connection | 4G |
| Modules | up to 25/100 | Mounting | Fixings included |
| Power | | Control | Remote |

100% solar powered

- Weather data
- Pre-wired sensors
- Solar power supply
- Real-time connection¹



* Range up to 800m. Range varies depending on the installation configuration.
¹Synchronises with server every 15 minutes

Responsiveness over 4G

- 100% solar powered
- Reliable connection
- Real-time connection¹



ALSO DISCOVER...



LR-MB
Indoor
WiFi Gateway

Connects up to
30 modules!



* Range up to 800m. Range varies depending on the installation configuration.
¹Synchronises with server every 15 minutes

UP TO
5 years
OF AUTONOMY

CONTROLLERS

NEW

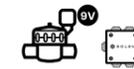
LR-PM



Module for Master Valve / Pump LoRa™, 9V

The LR-PM is a waterproof, 9V Bluetooth® and LoRa™ irrigation controller, able to control a master valve or a pump. Paired with a WiFi or 4G Gateway, it automatically synchronises all irrigation schedules for modules connected to the same water network (LR-AG compatible). View all of your schedules at a glance and optimise the pump flow rate based on the schedules for your valves.

Compatibility



Power



Sensor input: 1



Connection



Station

1

Control

Remote

MYSOLEM
LR-PM has synchronized! 2min ago

- Valve A Off 2 days
- Valve B Off 2 days
- Valve C Off 2 days
- Pump Off 2 days



Keep your water system secure

- Waterproof (IP68)
- Manage your water consumption
- Pump on-off control

p.2
Eco Mode

p.9
Supervision

p.10
Cluster and Looping

DOCUMENTS



Range up to 800m. Range varies depending on the installation configuration.
* Pressure Switch (see p.37).

NEW

LR-AG

Irrigation Controller
LoRa™, 9V



The LR-AG is a waterproof, 9V Bluetooth® and LoRa™ irrigation controller, able to schedule valve operations independently. This controller can open up to 6 valves at the same time. It can also be programmed for simple cyclical irrigation.

| | | | |
|-----------------|----------------|------------|--------|
| Compatibility | | Power | |
| Sensor input: 1 | or | Connection | |
| Stations | 1/2/4/6 | Control | Remote |

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 Cluster and looping



Ideal for volume scheduling

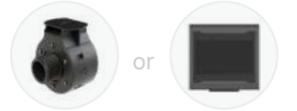
- Simultaneous valve opening
- Manage your water consumption
- Pressure control
- Cycle and soak scheduling



Range up to 800m. Range varies depending on the installation configuration.
* Pressure Switch (see p.37).

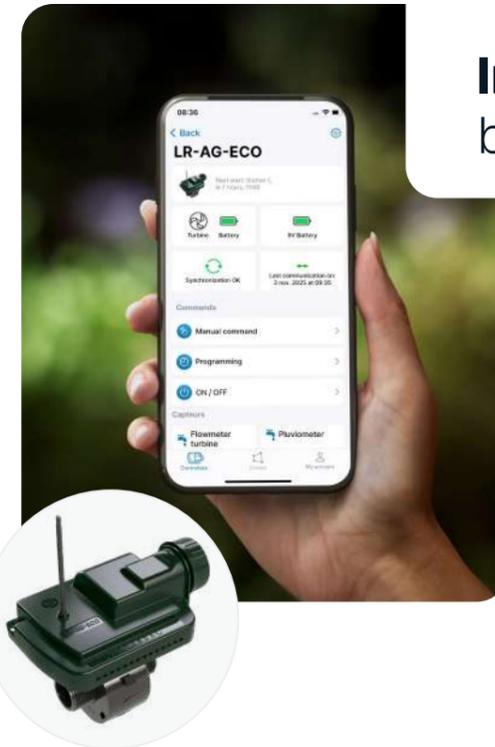
LR-AG-ECO

Irrigation Controller
LoRa™, 9V with turbine or solar panel



The LR-AG-ECO is a waterproof, battery-powered Bluetooth® and LoRa™ irrigation controller, sharing the same features as the LR-AG. It also incorporates a rechargeable battery powered by either a solar panel or a turbine installed on the water network to extend the life of the 9V battery. The turbine has a built-in flow meter that measures your water consumption, checks your flow, and identifies leak risks. Paired with a Wi-Fi or 4G router, you can access your data wherever you are.

| | | | |
|-----------------|----------------|------------|--------|
| Compatibility | | Power | or + |
| Sensor input: 1 | or | Connection | |
| Stations | 1/2/4/6 | Control | Remote |



Increase its battery life by using renewable energy

- Rechargeable battery
- Flexible configuration
- Simultaneous valve opening
- Manage your water consumption
- Pressure control
- Cycle and soak scheduling

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 Eco Mode

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 Supervision

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 Cluster and looping



Range up to 800m. Range varies depending on the installation configuration.
* Pressure Switch (see p.37).



RELAY

Relay



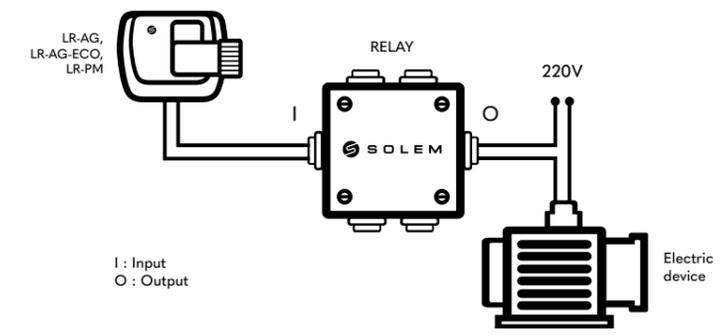
Electrical Power Relay Pump Control Unit

Command relays are used to control all types of electrical device (e.g. a pump) from a 9V LoRa™ or Bluetooth® controller. The irrigation command from the controller activates the opening or closing of the control relay.

| | | | |
|---------------|-------------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| Compatibility | Any type of device (up to 230V-16A) | Wired connection |  |
| Input | 1 | Max. length wired connection | For input 30 m / 33 yds |

Control remotely!

Is controlled remotely by means of a 9V LoRa™ and Bluetooth® controller (itself paired with a WiFi or 4G gateway access point).



CONNECTED SENSORS

Connect All Your Sensors

Optimize your plants with the appropriate irrigation.



UP TO
5 years
OF AUTONOMY

NEW

LR-MS

Sensor Module
LoRa™, 9V

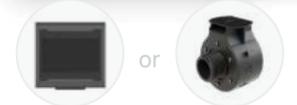


The LR-MS is a waterproof, 9V, sensor data acquisition module. This module can connect to many types of sensor, including weather sensors (rain, air humidity, wind speed and temperature), water meters, soil moisture sensors, soil tensiometers, various level detectors, and more. Paired with a WiFi or 4G gateway, you can access your data wherever you are. You can view and extract your data from the MySOLEM.com platform, and even automate your irrigation based on thresholds that you set for each sensor.

| | | | |
|---------------|--------------|--------------------|----------------------|
| Compatibility | | Connection | |
| Sensors input | 1 / 4 | Distance to sensor | 30 m / 33 yds |
| Power | | Control | Remote |

LR-MS-ECO

Sensor Module
LoRa™ with Solar Panel or Turbine



The LR-MS-ECO is a waterproof, 9V, LoRa™ sensor data acquisition module, sharing the same features as the LR-MS. It also incorporates a rechargeable battery powered by either a solar panel or a turbine installed on the water network to extend the life of the 9V battery. The turbine has a built-in flowmeter that measures your water consumption, checks your flow, and identifies leak risks. Paired with a WiFi or 4G gateway, you can access your data wherever you are.

| | | | |
|---------------|--------------|--------------------|----------------------|
| Compatibility | | Connection | |
| Sensors input | 1 / 4 | Distance to sensor | 30 m / 33 yds |
| Power | | Control | Remote |

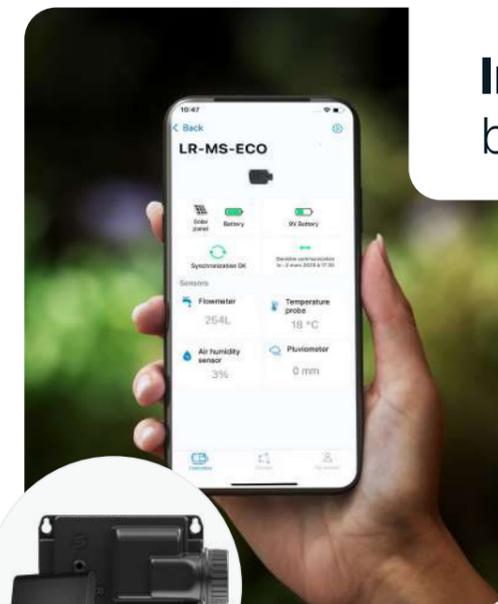
Optimize your irrigation
using your own sensor data



- p.2 Eco Mode
- p.9 Supervision
- Various sensors
- Configurable notification thresholds
- Data extraction options



Increase its battery life
by using renewable energy



- Rechargeable battery
- Flexible configuration
- Various sensors
- Configurable notification thresholds
- Data extraction options
- p.2 Eco Mode
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NEW

LR-MS-SDI12



Sensor Module LoRa™, 9V

The LR-MS-SDI12 is a waterproof, 9V, sensor data acquisition module, sharing the same features as the LR-MS. This module is compatible with various sensors operating using the SDI-12 protocol.

| | | | |
|---------------|----------|--------------------|----------------------|
| Compatibility | ... | Connection | |
| Sensor input | 1 | Distance to sensor | 30 m / 33 yds |
| Power | | Control | Remote |



Optimize your irrigation using soil data

- Various sensors including multi-level capacitive sensors
- Configurable notification thresholds
- Data extraction options

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Eco Mode

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Supervision



Connected Sensors

Customize how your crops are monitored



Tensiometer WATERMARK



Humidity sensor WATERSCOUT SM100 / DECAGON EC-5 & EC-10 HS / TEROS 10 & 12 / Multi-level capacitives HYDRASCOUT / SENTEK



Rain gauge DAVIS and HONDE



Anémomètre IED ELECTRONICS ANEMO4403



Pulse water meter



Temperature sensor PT100



Pressure sensor HUBACONTROL / WIKA



HM 1500 LF



Level sensor 712 HUBACONTROL

Choosing your sensor modules

| SENSORS | SENSOR MODULES | | | | | |
|-----------------|----------------|--------|------------|------------|-------------|-------|
| | LR-MS1 | LR-MS4 | LR-MS1-ECO | LR-MS4-ECO | LR-MS-SDI12 | LR-PR |
| Temperature | | • | | • | | |
| Rainfall | • | • | • | • | | |
| Anemometry | • | • | • | • | | |
| Flow Measuring | • | • | • | • | | |
| Soil Moisture | • | • | • | • | • | |
| Tensiometry | • | • | • | • | | |
| Pressure | | | | | | • |
| Pressure Switch | • | • | • | • | | |
| Hygrometry | • | • | • | • | | |
| Water Level | • | • | • | • | | |



▶ WATCH THE TUTORIAL

How to install a sensor with MySOLEM

For more information, please contact our sales team.

+ 33 (0)4 67 59 99 75

commercial@solem-irrigation.com

Multi-Level Moisture Sensors



Measure soil moisture level at various depths

Optimise the amount of water supplied to your plants by using multi-level moisture sensors: maintain optimum soil moisture levels by measuring soil or substrate moisture content at different depths. Receive prompt notifications and deliver the right amount of water at the right time.

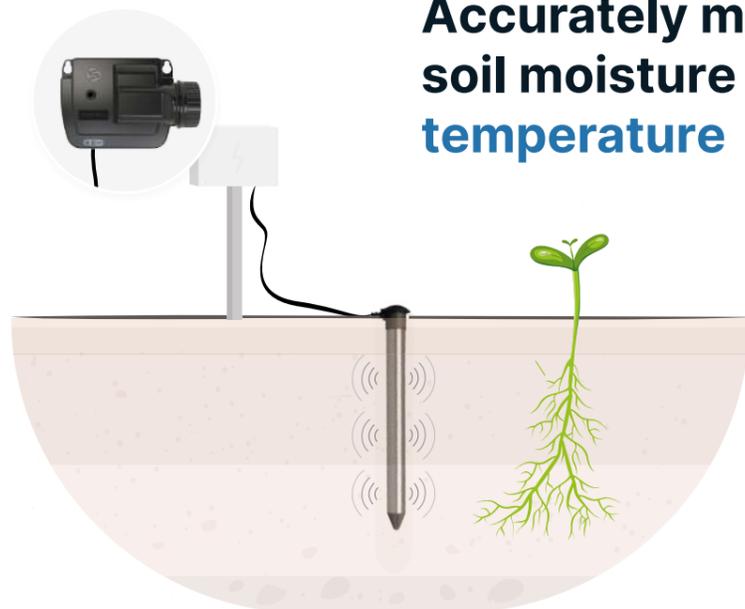
Moisture Sensors



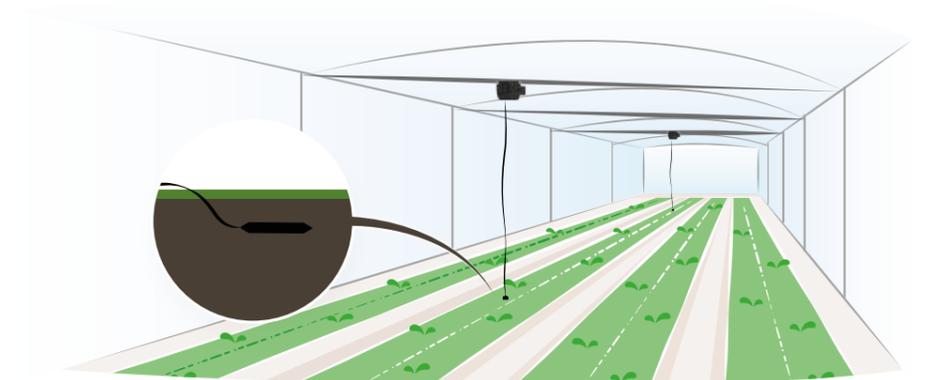
Measure soil moisture level

Optimise the amount of water supplied to your plants by using moisture sensors: maintain optimum soil moisture levels by measuring soil or substrate moisture content through the positioning of your sensors (individual or multiple). Receive prompt notifications and deliver the right amount of water at the right time.

Accurately monitor soil moisture & temperature



Monitor your soil moisture in real time*



Sensors compatible with

✓ LR-MS-SDI12



Sensors compatible with

✓ LR-MS

✓ LR-MS-ECO



* Dependent on how the installation is configured.

Tensiometry Sensor

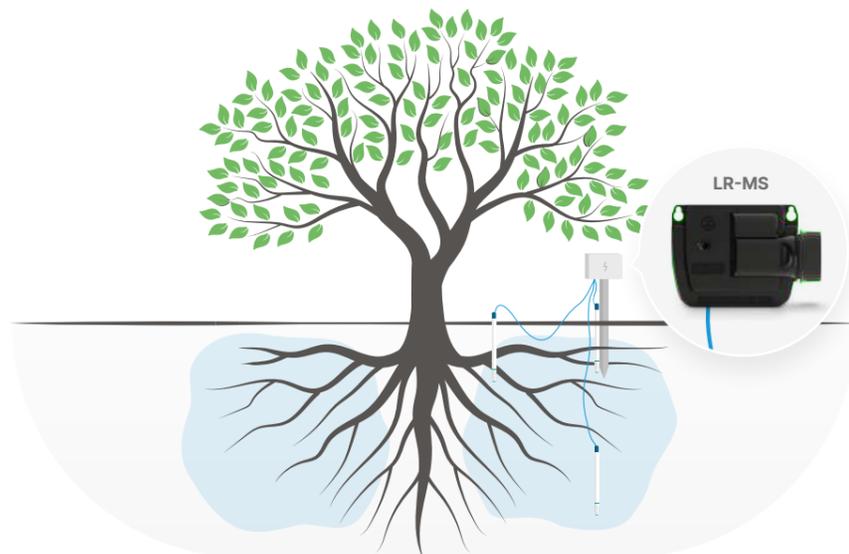
Monitor soil water tension

Confirm your plants' root development. Save water.



Check that your plants are growing as expected

-  Check for the presence of water bulbs, which promote root development, by positioning your sensors at different depths depending on the type of soil, plant, root system, etc.
-  Adjust your watering schedules so as to deliver the right amount of water at the right time.



Level Sensor

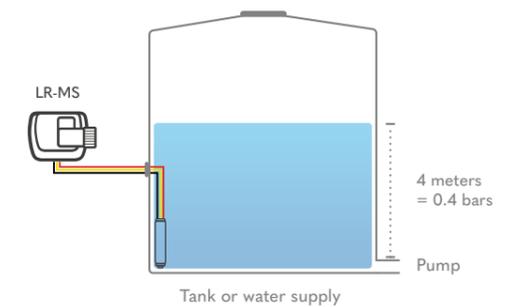
Measure and track the level of your water tank

A level sensor can be used to measure all types of water storage. Paired with a sensor module, it will upload data and notify you when the upper and lower thresholds you have set are reached.

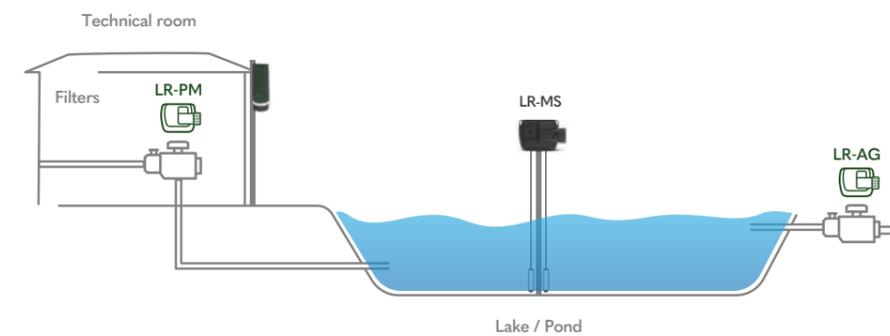


Automated tank filling

-  Connect a LoRa™ controller to your pump to automate the filling of your tanks.



Automate your installation





LR-PR

Connected Pressure Sensor

The LR-PR is a unit comprising a waterproof, Bluetooth® / LoRa™ data acquisition module equipped with its own pressure sensor. This pressure gauge kit uploads pressure measurements **between 0 and 16 bar** to the MySOLEM platform or app, allowing you to monitor the pressure of your installation. Once you have set the trigger thresholds, the MySOLEM platform will notify you when they are breached, enabling you to protect your equipment.

| | | | |
|---------------|-----------------|------------|--------|
| Compatibility | Pressure sensor | Connection | |
| Sensor input | 1 | Control | Remote |
| Power | | | |

Keeping your water system secure

p.2
Eco Mode

p.9
Supervision

- Pressure control
- Configurable notification thresholds
- Data extraction options



* The warranty only covers the casing



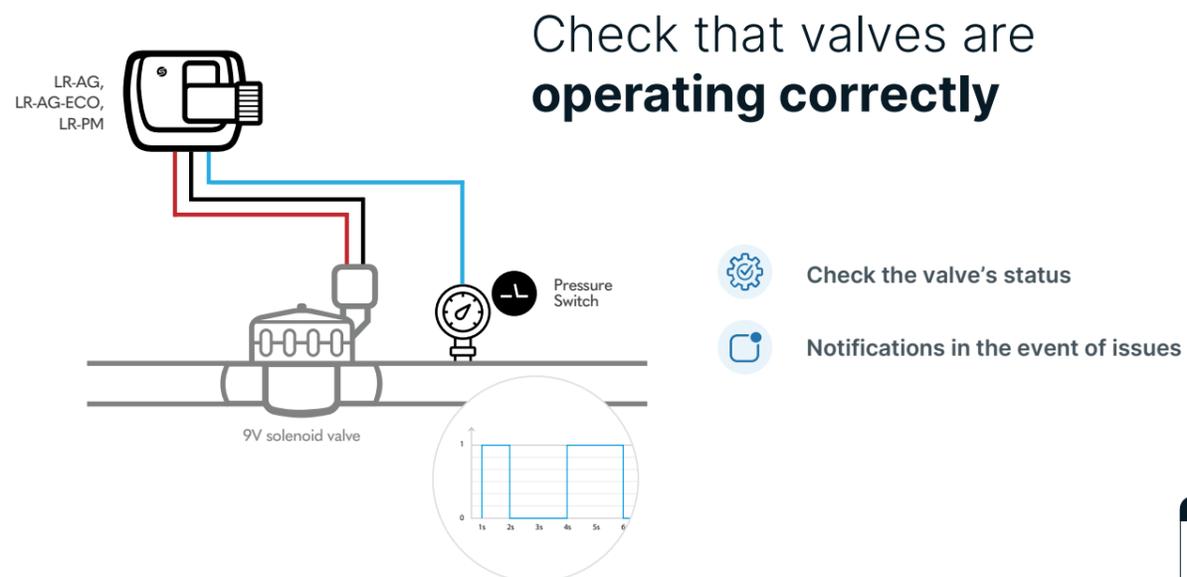
Pressure Switch

Pressure Detector



The pressure switch is the ideal product to ensure that your solenoid valves are operating correctly according to your controllers' settings. Ensure that your solenoid valves have been activated correctly. It also helps save time analysing technical issues affecting the water system.

| | | |
|---------------|-----------------------|------------------|
| Compatibility | LR-AG/LR-AG-ECO/LR-PM | Wired connection |
|---------------|-----------------------|------------------|



Check that valves are operating correctly

- Check the valve's status
- Notifications in the event of issues



BLUETOOTH® RANGE

Control your agricultural irrigation on site

CONTROLLERS



BL-AG

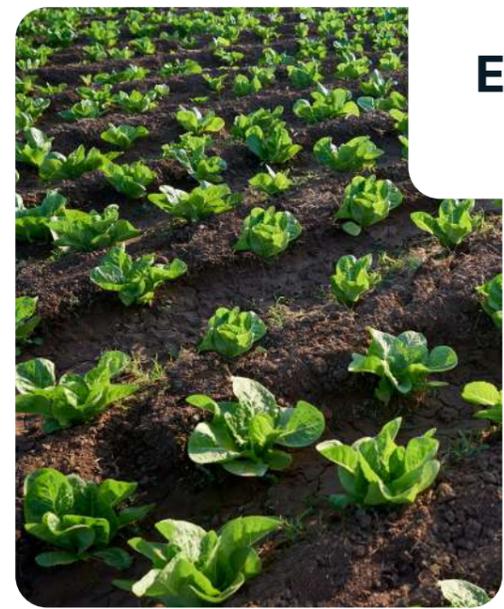


Irrigation Controller

Bluetooth®, 9V

The BL-AG is a waterproof, Bluetooth® irrigation controller, able to schedule up to four valves independently. It is designed for professional users who want to water their land in a smart yet straightforward way with a smartphone.

| | | | |
|-----------------|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------|
| Compatibility |  | Power |  |
| Sensor input: 1 |  | Connection |  |
| Stations | 1/2/4 | Control | On site (10m / 11 yds)  |



Ease of use in 9V

-  Simultaneous valve opening
-  Cycle and soak scheduling
-  Volume/precision irrigation controls



High-quality products & services

SOLEM is committed to providing secure and effective services.



Application & platform

Free of charge, available 24/7* for remote management of all SOLEM products.



Scalable system

Capacity to support an unlimited number of products.



Data protection

Our servers are hosted in France and managed by SOLEM.



Data backup

Backups every 6 hours to limit the risk of data loss.



Technical support

Our experts are ready to listen to your needs and advise you about your watering plans.



Three-year warranty

All SOLEM products (excluding accessories and spare parts) are guaranteed for 3 years.

Useful links



MySOLEM
App



MySOLEM.com
Platform



solem-irrigation.com
Website



@SOLEMIrrigation
YouTube channel

*Approx. 12 hours of maintenance per year.

COMING IN 2026...



@SOLEMIrrigation

YouTube channel



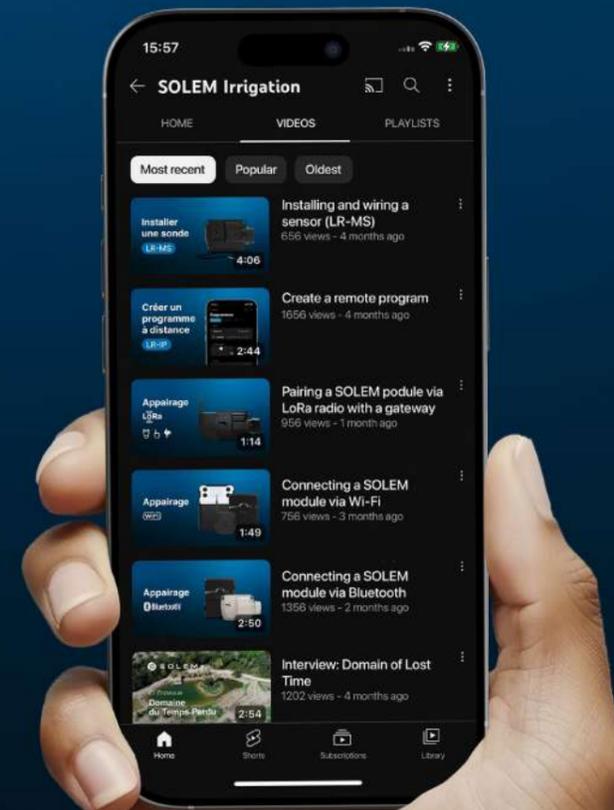
Installation
Tutorials



MySOLEM
Tutorials



User
Testimonials



ALL OUR PRODUCTS



| | Application | | | | | Communication | | | | | Power | | | Inputs / Outputs Number of stations | Pages | | |
|-------------------------------------------------------------|------------------|------------|-------------|----------|-----------------|---------------|------------|-----|------|-------|---------|------------|------------|----------------------------------------|-------|--------------------------------------------------------------|-------------|
| | Internet gateway | Irrigation | Water Meter | Pressure | Pressure switch | Sensors | Bluetooth® | NFC | WiFi | LoRa™ | 3G / 4G | ANTI-THEFT | 9V Battery | | | AC Power | Solar power |
| Bluetooth® range: local control, 9V | | | | | | | | | | | | | | | p.38 | | |
| BL-AG | | • | | | | | • | | | | | • | • | | | 1-2-4 stations | p.39 |
| LoRa™ range: remote access, long range, battery or AC Power | | | | | | | | | | | | | | | p.14 | | |
| Irrigation station | • | | | | | • | • | | | • | • | • | | • | • | 24 / 99 modules | p.16 |
| LR-BST-REACT | • | | | | | | • | | | • | • | • | | • | • | 25 / 100 modules | p.17 |
| LR-MB | • | | | | | | • | | • | • | | • | | • | | 30 modules | p.17 |
| LR-AG | | • | • | | • | | • | • | | • | | • | • | | | 1-2-4-6 stations | p.20 |
| LR-AG-ECO | | • | • | | • | | • | | | • | | • | • | | • | 1-2-4-6 stations | p.21 |
| LR-PM | | • | • | | • | | • | • | | • | | • | • | | | 1 water meter input 1 master valve or pump output | p.19 |
| LR-MS4 | | | • | | • | • | • | • | | • | | • | • | | | 1 dedicated temperature input + 3 sensor or meter outputs | p.26 |
| LR-MS4-ECO | | | • | | • | • | • | | | • | | • | • | | • | 1 dedicated temperature input + 3 sensor or meter outputs | p.27 |
| LR-MS-SDI12 | | | | | | • | • | • | | • | | | • | | | 1 sensor input | p.29 |
| LR-PR | | | | • | | • | • | | | • | | • | • | | | 1 pressure sensor input | p.36 |

GLOSSARY

BL: Bluetooth®
LR: LoRa™

IP: 9V Battery
IS: AC Power

MB: Mother Board
MS: Module Sensors
PR: Pressure

AG: Agriculture
PM: Pump Management



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SOLEM is also an expert in **connected solutions** for:



MUNICIPALITY



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ISO 9001:2015 certified for the design, development, manufacture, sale and after-sales service of smart electronic products.

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