



Innovation at the heart of our profession for **efficient** and **responsible irrigation**

Key figures

40 years of experience

150 employees

50% international sales

27 countries

+500k on-site products







FREE APP & ONLINE PLATFORM





M y S O L E M

CONTROL THE AGRICULTURAL IRRIGATION OF YOUR FIELDS WITH OUR APP

The free MySOLEM app is available on the App Store and Google Play. Is optimized with the Bluetooth® Smart V4 version available on most tablets and smartphones.



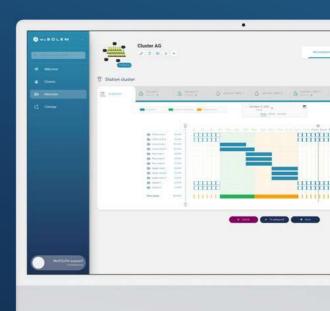






A PLATFORM MADE FOR PROFESSIONALS

MySOLEM CANOPY, the CLUSTER and the PRO ACCOUNT are professional features of the MySOLEM.com platform. Features include site management, site mapping, user management, etc.







MY CONNECTED CROPS

05 FUNCTIONALITIES



16 IRRIGATION STATION 4G Gateway & climate data

17 LR-BST-REACT 4G Gateway

17 LR-MB Indoor WiFi Gateway

CONTROLLERS

LR-AG 9V Agricultural Controller

20 LR-PM / RELAY 9V Controller for Master Valve or Pump

ONNECTED SENSORS

24 LR-MS 9V Sensor Module

LR-MS SDI12 / RS485 9V Sensor Module NEW

25 LR-MS-ECO 9V Substainable Sensor Module © ECO RANGE

26 SENSORS Individual Sensors or in Kit

LR-PR 9V Connected Pressure Sensor Kit



SCANOPY

Your past, present & future irrigation

Manage your crop fields

CANOPY is a feature of the MySOLEM platform that allows you to manage your crop fields.

- Define and visualize your irrigation sites
- Give full or partial access to your maintenance teams according to your different installation groups
- Geolocate your equipment



DASHBOARD

All your data in the blink of an eye

See at a glance how your systems are working thanks to a dedicated dashboard for each of your crop fields and check the water consumption by site or as a whole.

Description | Control | C

SUPERVISION

History & Control



Monitor the effectiveness of the irrigation with the graphical representation.

Verify the compliance of your hydraulic network by associating your valves and sensors.

Customize your monitoring interface with your own supervision tabs.

DISCOVER CANOPY!



FUNCTIONALITIES

CONSOLIDATE YOUR WATERWAYS

thanks to CLUSTER

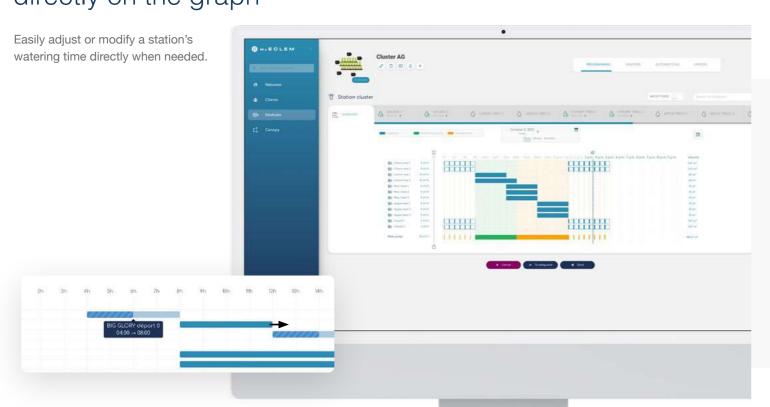


View all your programs in one single board

Group all your controller stations on the same primary network to form a single one:

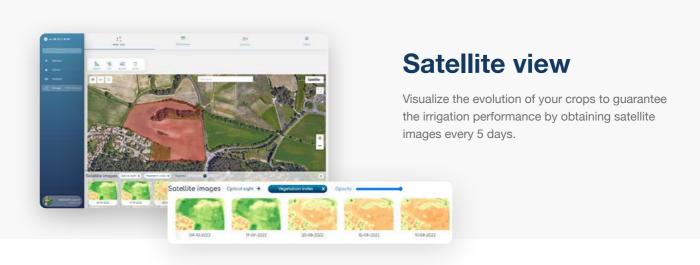
- View all your stations at a glance.
- Check your overall water consumption or station by station consumption.
- Be notified in case of under or over flow while your irrigation program is running.
- Synchronizes automatically your master valve to avoid risks of overpressure.
- % See the impact of your water budget on your programming.

Modify your programming directly on the graph



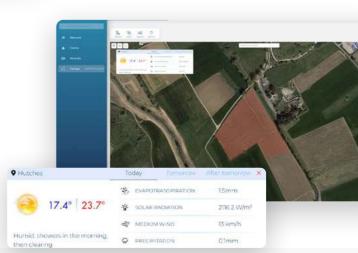
MYSOLEM EVOLUTION

New features for a precise irrigation



Evapotranspiration & solar radiation

Switch to precision irrigation by taking into account the online weather data of your area.





Looping

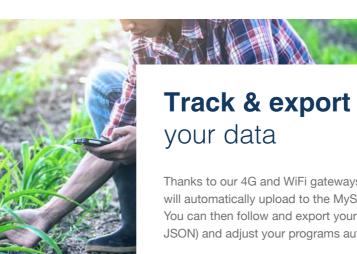
Program the duration of your irrigation by station (for 24h) and create an initial loop for 40 days max. Repeat this loop indefenitly. Change the starting order of your stations, add the associated flow and benefit from a larger number of programs per station.

Only available once a cluster of controllers has been created.



MYSOLEM AUTOMATION

Let your sensors control your valves



Thanks to our 4G and WiFi gateways, your sensors' data will automatically upload to the MySOLEM platform. You can then follow and export your data (Excel, CGS, JSON) and adjust your programs automatically if needed.



Exploit your data to automate your irrigation

By defining min/max thresholds for your sensors, you can automate actions on your controllers via the MySOLEM platform. Irrigate at the right time, with the right volume of water.

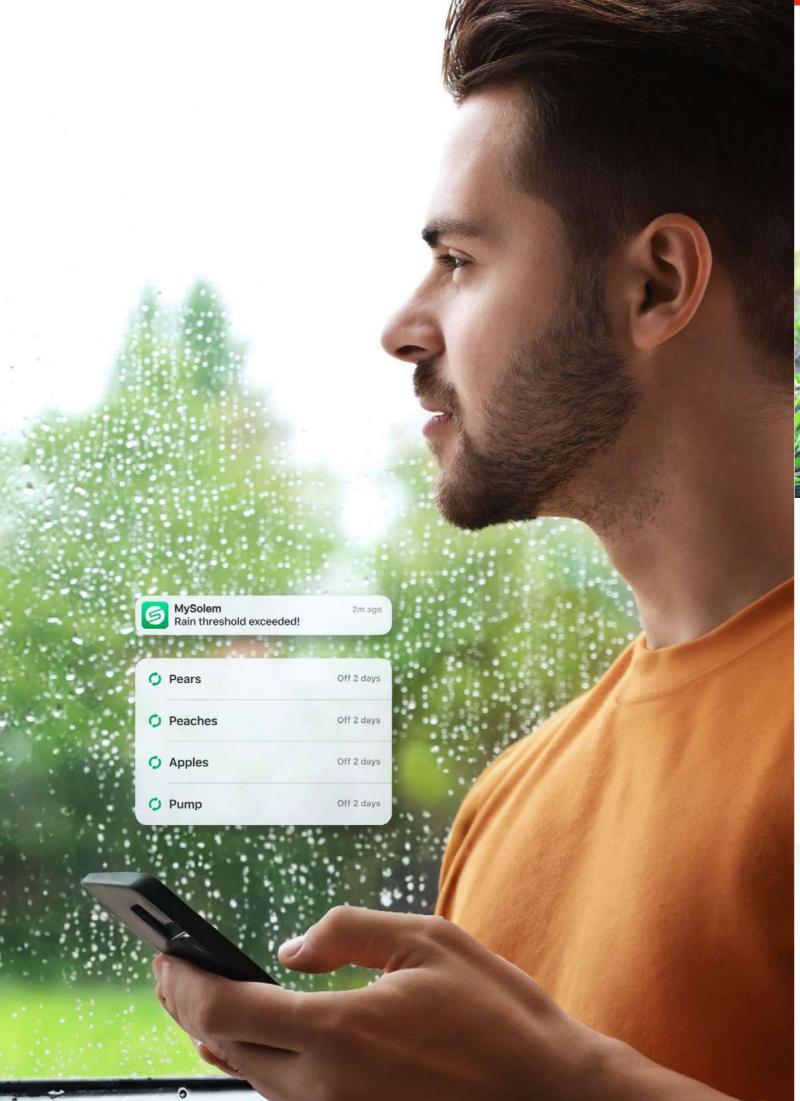
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o ₉ Linked modules					
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Start and stop a main valve or a pump

Turn on or off your modules automatically



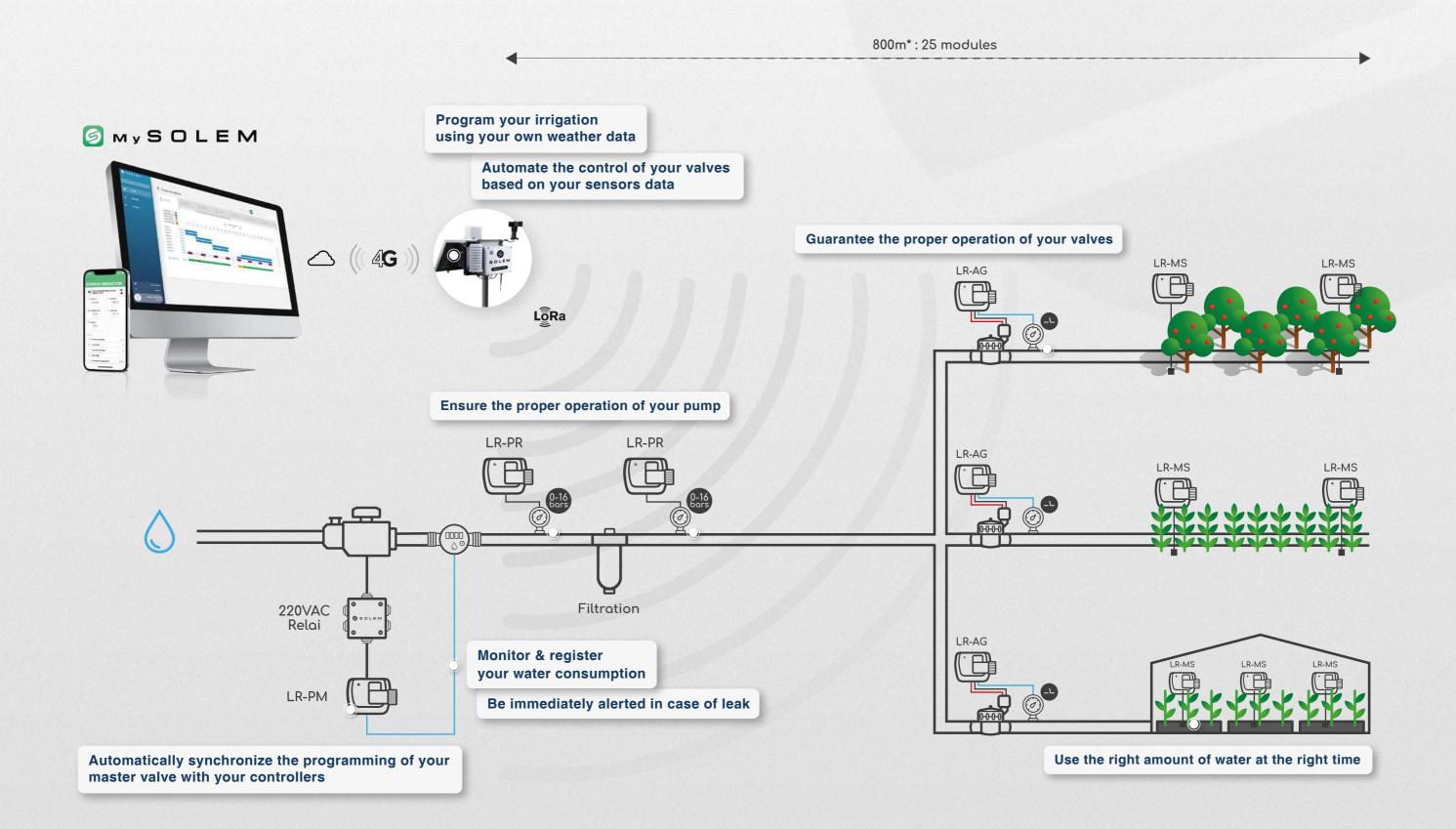




AUTOMATE YOUR ENTIRE IRRIGATION SYSTEM

WITH SOLEM

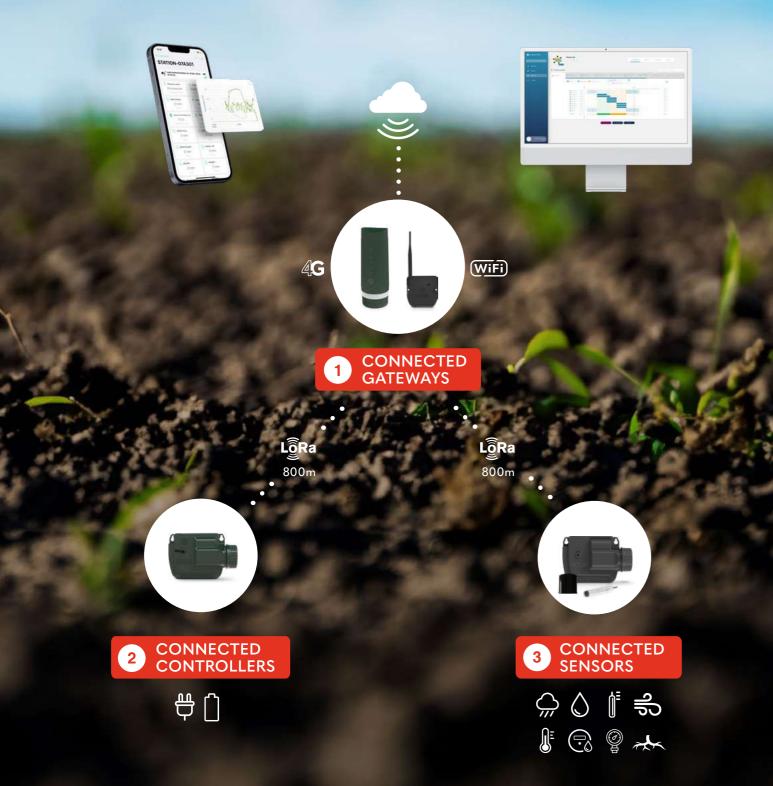
CONTROL YOUR IRRIGATION REMOTELY WITH LORATM



CONTROL YOUR IRRIGATION SYSTEM REMOTELY FROM ANYWHERE WITH LORATM

Connect your modules using LoRa[™] radio technology to create remote-controlled installations.

Simply deploy the SOLEM controllers in the field, without having to worry about wiring or additional power supplies.



Control your water consumption easily, from anywhere!

- Connect a water meter to your controllers to monitor your consumption and to detect leaks.
- Automatically stop your pump or master valve using the MySOLEM plateform.
- Set up a threshold based on your needs.
 - Avoid leaks and save water.





Irrigation Station

4G Gateway, centralizes your sensors, 100% self-sufficient with solar panel

The irrigation station is a 4G outdoor gateway communicating through its SIM card. It is 100% solar-panel autonomous and pre-equipped with four probes. It is a weather station providing climate and gateway data capable of remotely managing up to 144 stations (24 modules) via LoRa™ radio. Simply transfer your programming and settings to be alerted in real-time from anywhere! You can then group together all your sensor data for visualization.

Range to module	800* m / 875* yds	Connection	4G Lora 🚷 Bluetooth
Modules	up to 24	Mounting	Pole provided
Power	 Ö-	Control	Remote



SOLAR-POWERED



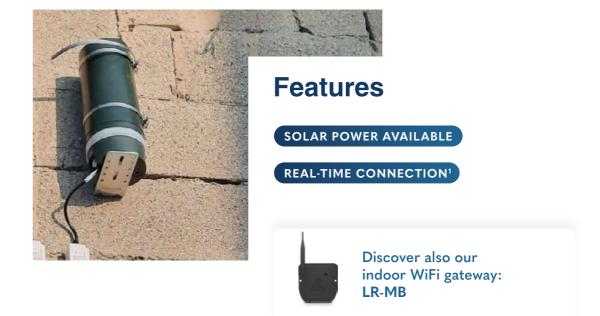


LR-BST-REACT

4G Gateway to manage your modules remotely

The LR-BST-REACT is an outdoor 4G gateway communicating through its SIM card, remotely managing up to 25 modules. It is ideal for isolated green spaces without WiFi and/or for spaces without a power supply, given that the station can either be plugged into the mains or fully autonomous when connected directly to a solar panel. Simply transfer your programming and settings to be alerted in real-time from anywhere!

Range to module	800 * m / 875* yds	Connection	△G LoRa Bluetooth °
Modules	up to 25	Mounting	Fixings included
Power	₩ 📠	Control	Remote DD D



^{*}Up to 800m range. It variates according to system configuration. Synchronization to server every 15 minutes



SOLEM

*Up to 800m range. It variates according to system configuration.



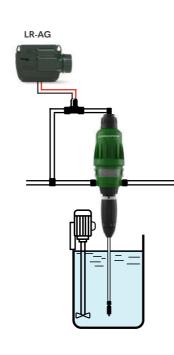
SCAN TO VIEW PRODUCT SHEET

MANAGE YOUR FERTIGATION with the LR-AG



Control your fertigation

The LR-AG agricultural controller allows you to manage your electrovalves and/or a fertigation pump (manual or electric) independently. It can also be programmed to automate the nutrient inputs according to your programs when used within a cluster.

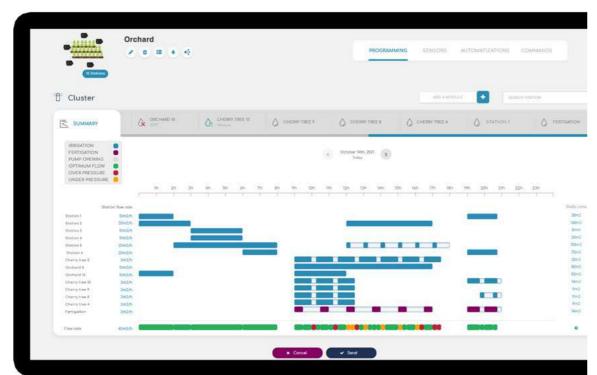


CLUSTER Summary View

Using the CLUSTER feature, it is possible to quickly visualize the current programming of your entire irrigation (blue lines) and fertigation (purple line) system. You can also see how your programming impacts the flow rate of your master valve or pump.



Your program doesn't suit you? Modify it immediately by adjusting the bars directly on the graph.





Agricultural Controller

The LR-AG is a waterproof, battery-powered LoRa™ irrigation controller that can control electrovalves independently. It can open up to 6 valves at the same time and it can also be programmed for simple cyclic watering.

Compatibility	9V 🕮	Connection	Lora 🚯 Bluetooth
Stations	1/2/4/6	Range to gateway	800 * m / 875* yds
Power	9V +-	Control	Remote



WATERPROOF

SIMULTANEOUS VALVE OPENING

CYCLIC PROGRAMMING

WATER CONSUMPTION CONTROL

PRESSURE CONTROL

VOLUMETRIC PROGRAMMING

MILIMETRIC PROGRAMMING













The LR-PM is a battery-powered, waterproof Bluetooth® and LoRaTM watering controller capable of controlling a master valve or a pump. Paired with a WiFi or 4G gateway, it automatically synchronizes the programming of all controllers connected to the same water network (LR-AG compatible). View all your programs at a glance and optimize pump flow according to your valve programming.

Compatibility		Connection	LoRa 🚯 Bluetooth
Stations	1	Range to gateway	800 * m / 875* yds
Power	9V	Control	Remote

The RELAY can be used to control any type of electrical device (e.x. pump) from a 9V LoRa™ and Bluetooth® controller. The watering command from the controller opens or closes the RELAY.

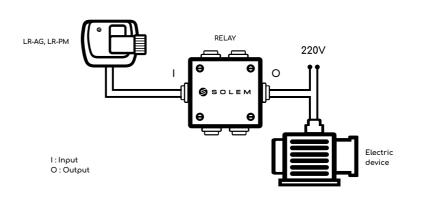
Compatibility	Any type of device (up to 230-16A)	Wire connection	Ŷ
Input	1	Max. distance to wire	For input $30 \text{m} / 33 \text{yds}$





Control remotely

Control remotely thanks to a 9V LoRa[™] and Bluetooth® controller (associated with a LR-MB-30 or LR-BST-REACT/25 access point).





*Up to 800m range. It variates according to system configuration.









The LR-MS is a battery-powered, waterproof LoRa™ sensor data acquisition module. It can connect a wide range of sensors, from weather probes (rain, humidity, anemometry and temperature) to water meters, soil moisture probes, pressure sensors, level sensors and more. Paired with a WiFi or 4G gateway, access your data from anywhere. On the MySOLEM.com platform, view and retrieve your data, and even automate your watering according to your set thresholds for each sensor. Choose the version compatible with the sensors you plan on using.

Compatibility	∌ () ()	Connection	😝 Bluetooth 🐧 LogRa
Inputs	1 / 4	Distance to sensor	30 m / 33 yds
Power	ev [- 	Control	Remote



The LR-MS-ECO is a battery-powered, waterproof LoRa™ sensor data acquisition module that shares the same features as

the LR-MS. It also features a rechargeable battery powered by a photovoltaic panel to extend the life of the 9V battery. Paired



Features

WATERPROOF

MULTI-SENSOR

ALERT THRESHOLDS

DATA EXPORT

Extended versions

SDI-12 PROTOCOL

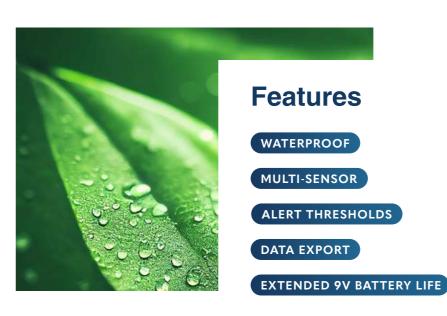
NEW

RS-485 PROTOCOL

NEW

SCAN TO VIEW





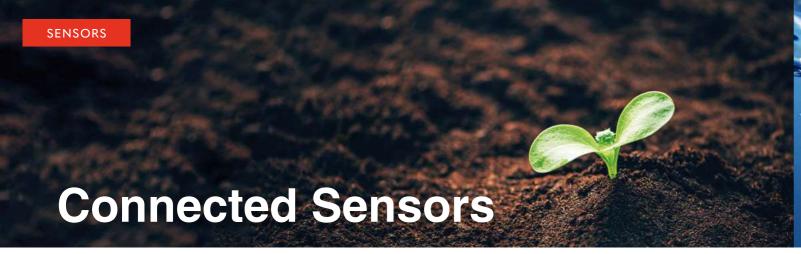
with a WiFi or 4G gateway, access your data from anywhere.











Customize the monitoring of your irrigation system



Humidity Tensiometer WATERMARK



Humidity sensor WATERSCOUT SM100 / DECAGON EC-5 & EC-10 HS



Rain gauge DAVIS



Anemometry IED ELECTRONICS ANEMO4403



Pulse water meter



Temperature sensor PT100



ressure sensor HUBACONTROL / WIKA



HM 1500 LF



Level sensor 712 HUBACONTROL



How to choose your sensor module?





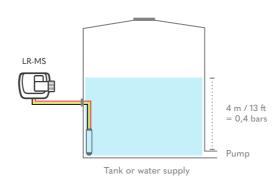
Level Sensor

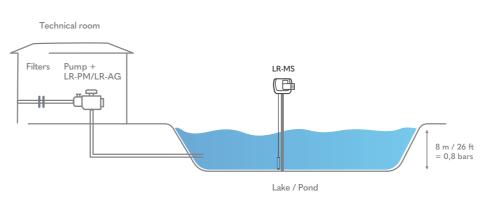
Measure and track the level of your water tank

The Type 712 level probe can be used to measure any type of tank. When connected to an LR-MS probe module associated with a gateway, it will provide data feedback and alert you according to the defined parameters.

Monitor the water level of your tanks

Measure accurately the height of your water reservoir regardless of the tank's dimentions and be notified in case your min./max. thresholds are exceeded.











Tensiometry Sensor

Monitor soil water stress

Humidity Sensor

Measure soil moisture levels



Ensure the proper development of your crops

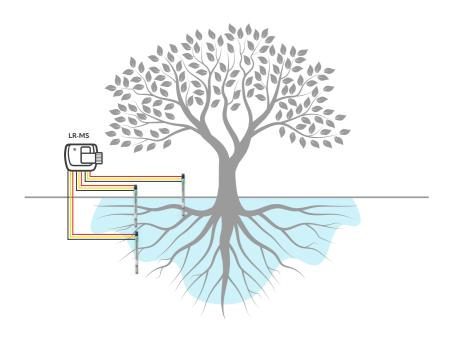
Control the depth and width development of the root system of your plants and adjust your irrigation accordingly.



Monitor your soil stress level and water intake time by positioning you sensors at different depths depending on the type of soil, plant, root system, etc.



Adapt your watering programs to provide the proper amount of water at the right time.







Optimize the amount of water to your crops

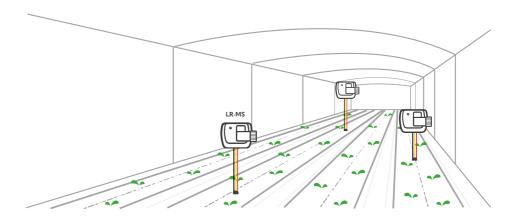
The humidity sensor ensures the proper development of your crops in multiple ways:



Maintain an optimal level of humidity: measure soil or substrate moisture levels with probes (single or multiple).



Provide the right amount of water at the right time.













The LR-PR is a kit composed of a Bluetooth® / LoRa™ acquisition module equipped with a pressure sensor. The kit transmits pressure data from 0 to 16 bars to the MySOLEM online platform. Once the thresholds are defined, MySOLEM will alert you in case of overpressure so you can protect your equipment. It can also automatically stop your pump to prevent any leaks or damage to your system.

Compatibility	pressure sensor	Connection	Loĝa 🚷 Bluetooth
Input	1	Range to gateway	800 * m / 875* yds
Power	9V	Control	Remote

The pressure switch guarantees the proper functioning of your solenoid valves depending on the programming of your controllers. It is also helpful when analyzing technical problems in the hydraulic network. Receive an alert on your mobile phone or by e-mail in case of anomaly.

LR-AG/LR-PM Compatibility Wire connection





Features

WATERPROOF

PRESSURE CONTROL

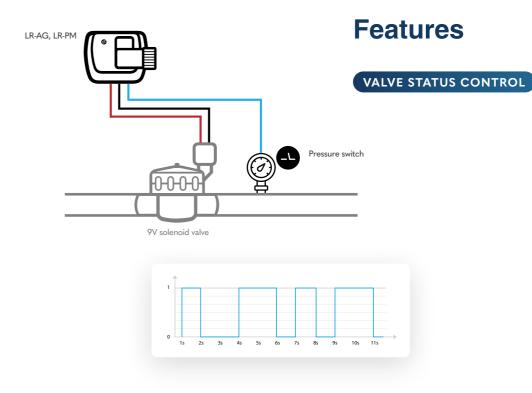
HYDRAULIC NETWORK SECURITY

WARNING THRESHOLDS

DATA COLLECTION









*The warranty covers the sensor module only.







Quality products & services

SOLEM is committed to provide a secure and efficient service.



APPLICATION & PLATEFORM

Free and available 24/7* to manage any SOLEM product remotely.



MODULAR SYSTEM

Ability to handle an unlimited amount of products.



DATA PROTECTION

Our servers are managed by SOLEM exclusively. SOLEM guarantees that your data is secured and will never be shared with third parties.



DATA BACKUP

A backup is generated every 6 hours to limit the risk of data loss.



TECHNICAL SUPPORT

Our experts are at your service to advise you on your irrigation projects.



3-YEAR WARRANTY

All SOLEM products have a 3-year warranty (with the exception of accessories and spare parts).

Useful links



MySOLEM







Website solem-irrigation.com



E-learning platform support.mysolem.com

*About 12 hours of maintenance per year.





LEARN BY YOURSELF VIA OUR E-LEARNING ONLINE PLATFORM!



Installation video tutorials



MySOLEM video tutorials

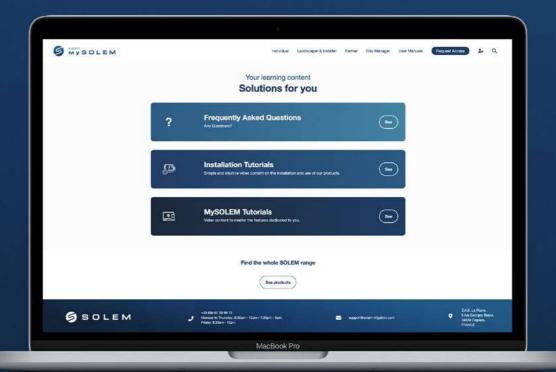


FAQ



Product documentation

support.mysolem.com





AN & O

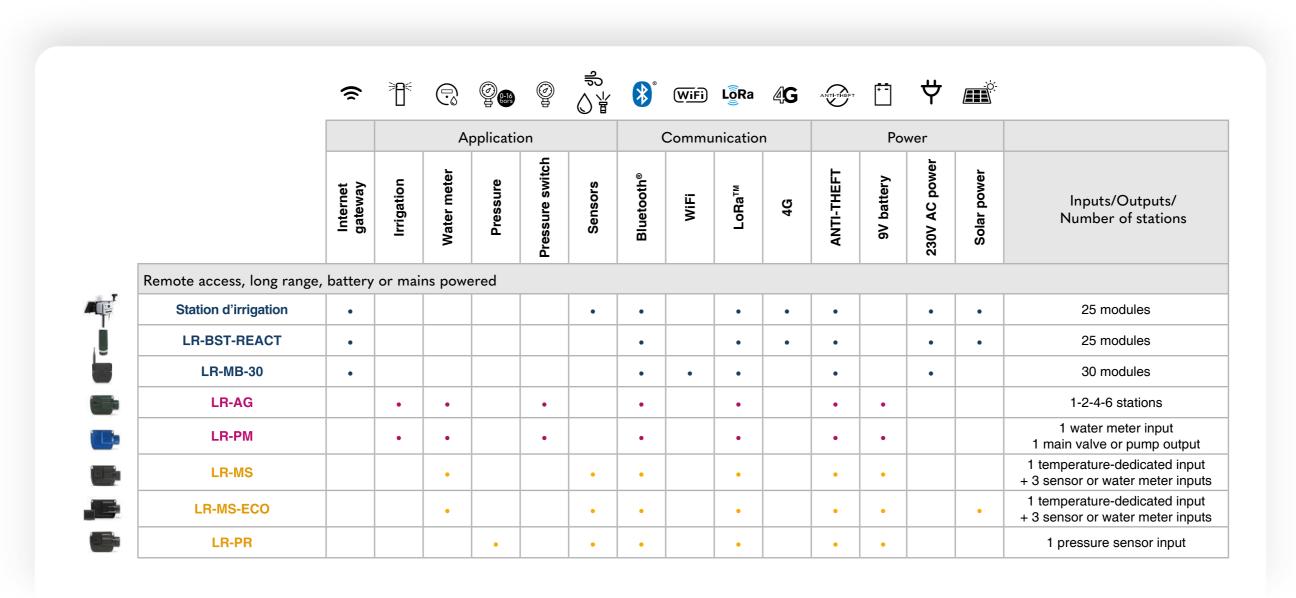


- 1. Go to https://support.mysolem.com/en.
- 2. Click « Request Access » at the upper right corner.
- 3. Click « Login with MySOLEM ».
- 4. Login via MySOLEM & fill in the form.
- 5. Validation of your access within 2 working days.



SUMMARY

OUR PRODUCT RANGE



Lexicon:

BL: Bluetooth® **LR**: LoRaTM

MB: Mother Board

IP: 9V Battery IS: AC power

MS: Module Sensors

PR: Pressure **AG**: Agriculture

PM: Pump Management





CONTACT

To find out more about our different product ranges please contact us. Our team will be happy to help!

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







RESIDENTIAL

solem-irrigation.com











ISO 9001 certification, version 2015, for the design, industrialization, manufacturing, sale and customer care of connected electronic products