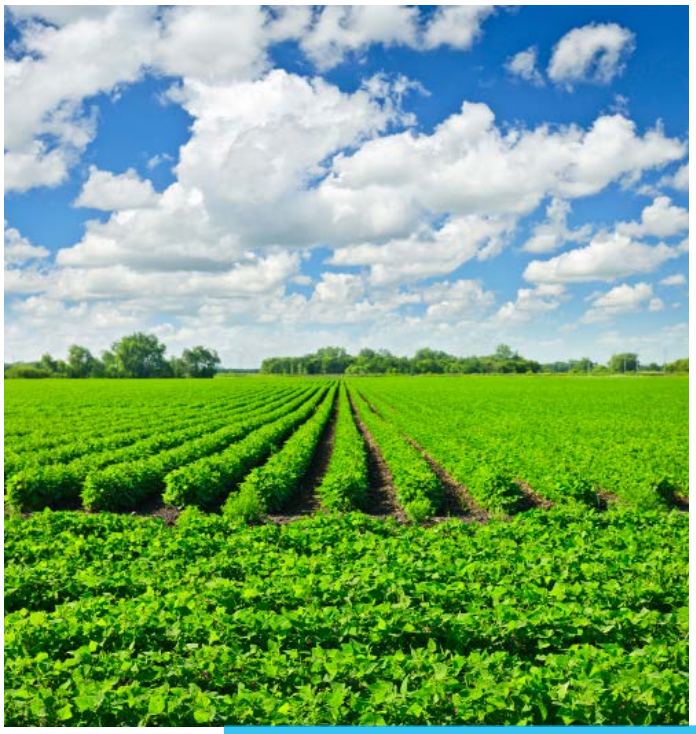
maher
Smart Agrocontrollers

MAHER ELECTRÓNICA

Manufacturer of agricultural irrigation and climate control equipment for professional use

OUR VALUES



With over 25 years of experience in the industry and the establishment of our company in 2001 to solidify our journey, we continue to uphold the values that have driven our growth.

Closeness: Training, support, and guidance. You will feel Maher's support at all times.

Customer Service: Efficiency and speed in resolving issues with a personal and direct approach.

Flexibility: Willingness to listen and adapt our products to meet each customer's needs.

Professionalism: We have highly qualified staff in all areas.

Honesty: Always providing maximum trust and transparency.

OUR PRODUCTS

We design and manufacture innovative products for more efficient agriculture through irrigation and climate automation.

Our equipment stands out for being:

Intuitive and easy to operate and install

Reliable and robust

Incorporating the latest technological advancements

OUR PRESENCE

Maher is a leading company in Almería that markets its products both nationally and internationally

In **Almería, we have achieved market leadership**, becoming a **reference point in Spain** as a manufacturer of irrigation and climate control equipment for agriculture.

We work with prominent clients in various countries, such as IRRITEC in Mexico, AGRICIÉN in Costa Rica, and MultiRiegos in the Dominican Republic. While we collaborate with large companies, our primary focus is on partnering with irrigation installers who provide a **comprehensive service**: advice, installation, commissioning, maintenance, and, above all, a dedicated after-sales service. **We seek irrigation installers who will support our brand and deliver the best care to the end user.**

We are present in **countries** like Portugal, Morocco, Algeria, Mexico, France, Italy, Peru, El Salvador, and Poland. Thanks to the **distribution** efforts of our clients, our equipment has reached even farther, finding its way to places like Belize, Turkey, Chile, the Seychelles Islands, and many others—some of which we may not even be aware of.

OUR TEAM

A highly qualified team to provide you with the best service

We have different **departments specialized** in each stage involved in the application process of our products and services.

Additionally, we offer a **fast and efficient technical support service**, with a maximum response time of 24/48 hours.

MANUEL HERNÁNDEZ
Founder & CEO

EVA
General Manager

VÍCTOR
R&D&I Dept.

FRANCISCO
R&D&I Dept.

JUAN MANUEL
R&D&I Dept.

ÁNGELA
Marketing Dept.

NATALIA
Administration Dept.

JOSÉ ANTONIO
Assembly and Technical Dept.

MANUEL
Customer service and after-sales Dept.

ABDELLAH
Assembly and Technical Dept.

MAHER CLIMA

MAHER CLIMA® is the most INNOVATIVE, EASY-TO-USE, and VERSATILE climate controller.

It allows you to record sensor readings and control VENTILATION and MISTING in enclosed spaces, such as greenhouses, farms, wineries, etc.

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clima

CONNECT YOUR CROPS WITH MAHER APP

THROUGH SENSORS

What does it control?

- Window control
- Misting control
- DPV calculation
- Heating control
- Recirculation control
- Exhaust fan control
- Fogging control
- Communication with external modules
- Up to 8 control zones
- Maximum number of outputs: 250
- Recording of external sensor readings (weather station): HR probe, temperature probe, anemometer, wind vane, solar radiation, and rain detector
- Recording of internal sensor readings (zone sensors): HR probe and temperature probe

CICLÓN

CONVENTIONAL IRRIGATION

Orchards, vineyards, olive groves, horticulture, gardens and fountains

Intuitive and easy to use - Maximum reliability - Fully configurable

What does it control?

- Irrigation
- Pumping
- Fertilizer agitation
- Fertilization with pH and EC control: proportional, by time, volume, and fixed
- Filter cleaning
- Sensor reading (optional)
- EC limits (optional)
- Capability to open and close valves through cyclic irrigation
- Control of lights and jets in fountains

Start types

- By start time. Up to 3 times per day
- Cyclic
- On-demand (3 demand inputs, expandable to 5)
- By accumulated solar radiation
- By time or volume
- By analog sensors
- Sequential programs

Features

- Maximum number of outputs: 48
- 1 Irrigation pump, expandable to 2
- 1 Master valve
- 1 Safety valve
- 1 General agitator + 1 independient agitator per fertilizer
- 1 Tratamiento especial
- 4 Fertilizers (+1 optional)
- 1 General Fertilization pump
- 8 Filters
- 20 Independent programs
- 10 Valves/program, either independent or grouped

>> You can modify irrigation program parameters in real-time. No need to stop irrigation or wait for the next cycle.

ferti 8000

HYDROPONIC IRRIGATION AND FERTIGATION

Hydroponic crops, horticulture, strawberries, bananas, fruit trees, vineyards, olive trees, blueberries...

Very intuitive and easy to use - Maximum reliability - Configurable

What does it control?

- Irrigation
- Pumping
- Fertilizer agitation
- Fertilization with pH and EC control: proportional, by time, volume, and fixed
- Filter cleaning
- Water mixing (optional)
- Valve opening and closing

Start types

- By star time. up to 3 times a day
- Cyclic
- On-demand (5 demand inputs)
- By accumulated solar radiation
- By analog inputs and remote valves
- Sequential programs

Features

- Maximum number of outputs: 96
- 2 Irrigation pumps
- 1 Master valve
- 1 Safety valve
- 1 General agitator + 1 Independent agitator per fertilizer
- 1 Special Treatment
- 4 Fertilizers **(expandable to 8)**
- 1 Acid
- 1 General fertilization pump
- 8 Filters
- 20 Independent programs
- 10 Valves per program (independent or grouped)

>> You can modify the irrigation program parameters in real-time. No need to stop the irrigation or wait for the next cycle.

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FERTIGATION, HYDROPONICS, FOGGING AND SMART WINDOWS

Hydroponic crops, horticulture, strawberries, bananas, fruit trees, ornamental plants...

Intuitive, touch-operated and easy to use - Maximum reliability - Configurable

What does it control?

- Irrigation
- Windows
- Fogging
- DPV Calculation (up to 8 zones)
- Pumping
- Fertilization with pH and EC control: proportional, by time, volume, or fixed
- Fertilizer agitation
- Filter cleaning
- Connection to METOS weather stations
- Mixing of 2 waters (optional)
- Remote management via Internet (optional)
- Remote activation of valves, motors, etc. (optional)
- Diesel engine start (optional)

Start types

- Fixed times (up to 3 times a day)
- Cyclic irrigation
- Sequential irrigation (starts when another irrigation program finishes)
- On-demand irrigation
- By accumulated solar radiation
- By Analog Input or Sensor (temperature, humidity, soil EC, anemometer, etc.)
- From Remote Units (start is conditioned by the status of digital inputs or sensor readings connected to remote units)

Features

- Maximum number of outputs: 250
- 8 Irrigation pumps
- 1 Master valve
- 1 Safety valve
- 1 General agitator + fertilizer agitators (up to 8)
- 1 Special treatment
  8 Fertilizers
- 1 Acid
- 1 Rinse valve
- DPV Calculation (up to 8 zones). Identifies unfavorable crop conditions due to greenhouse environmental conditions.

>> You can modify the irrigation program parameters in real-time. No need to stop the irrigation or wait for the next cycle.

CUSTOMIZED EQUIPMENT

All our equipment is **manufactured based on the total number of outputs and the power supply** specifications provided by the client.

We offer **different formats** tailored to the needs of each project:

Control panel with acrylic diagram

Mounted on structure or wall

Polyester cabinet with acrylic diagram

Mounted on wall

If needed, we can include the **electrical part** based on the provided parameters:

- Number of valves
- Number of fertilizers / acids
- Demand trays
- Connection to sensors
- Volume meter
- Motorized valves for mixing 2 water sources
- Installation motors
- Protections for motors: circuit breaker and contactor
- Type of electrical current

Fertigation equipment

Complete system that includes the hydraulic part:

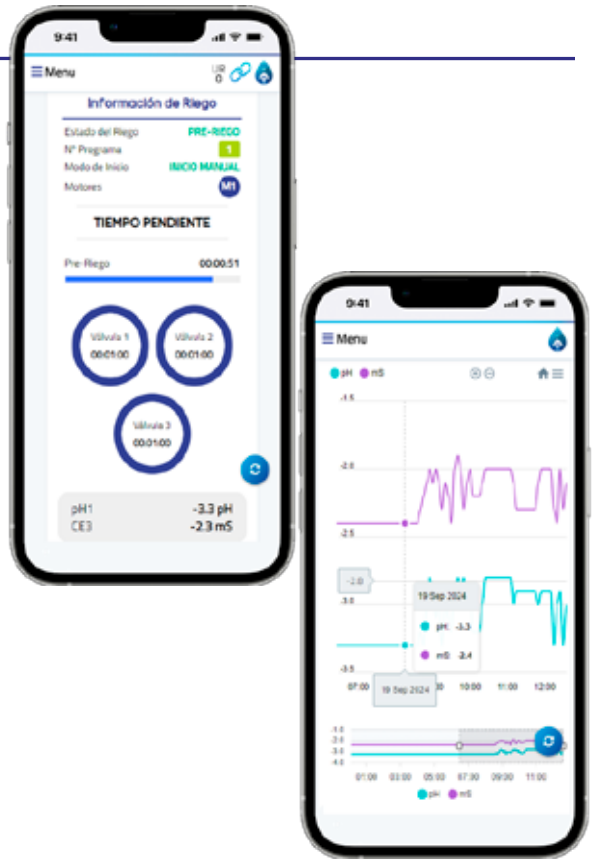
- Stainless steel structure
- Venturi system for injecting fertilizers and acids
- Injection pump (optional)
- Control panel
- Electrical part

>> Tell us about your project, and we will provide a customized solution

MAHER APP

Web application for remote control of the controller from any device with Internet access: Smartphone, tablet, PC...

Functions



- Connect to the irrigation system remotely
- Start, stop, modify, create, or delete irrigation programs.
- **View irrigation and anomaly logs**
- Display graphs of sensor-provided data
- Receive alerts for issues, irrigation start and end times via SMS
- Create **backups** of equipment settings and irrigation programs
- Grant temporary **access** to the installer, agronomist, or other users when needed
- Connect to **Metos weather stations**

Carry your equipment in your pocket!

Connection with Maher App

One of these devices is required:

- Kit GPRS 4G + server hosting
- Kit Ethernet + server hosting

Additionally, for the GPRS Kit, the following is needed:

- SIM card with an active data service for internet connection and voice service to receive SMS messages regarding irrigation start and end times, and registered anomalies.
- Maher Electrónica provides its own SIM cards, so there is no need to contract a telecommunications company. This card automatically connects to the provider with the best coverage at that moment and location.

Maher Radio

Radio irrigation control and automation system

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radio

They enable wireless communication of equipment for farm irrigation control, golf course irrigation, automatic tank filling, management of irrigation communities, sensor readings...

Up to **3.000 meters**, with no obstacles

Analog inputs

Allows the connection of additional sensors to the controller

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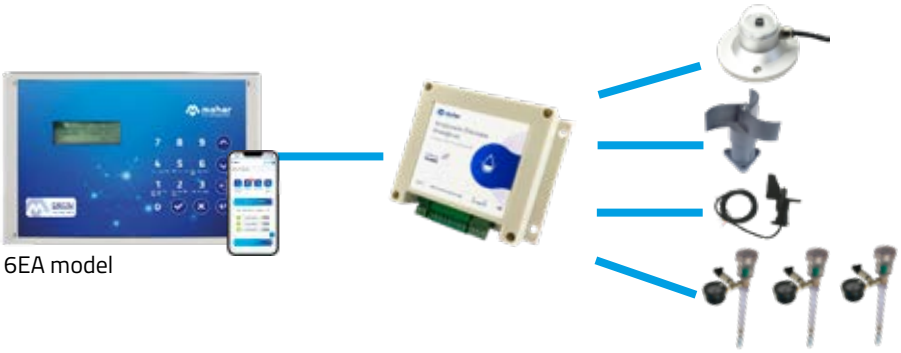
entradas analógicas

Expandable to up to 6 analog inputs per module and up to a total of 8 modules per controller. Various models available.



6EA model

Probe transmitter

0-5V and 4-20mA transmitter for pH and EC sensors

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transmisor de sondas

- Enables communication of data recorded by pH and EC sensors to the irrigation controller.
- Compatible with most irrigation controllers on the market and with most 2- or 4-ring EC sensors.
- Features automatic detection of the sensor type for temperature compensation.

>> Explore all the advantages of our technology

Maher Sensors

Monitor agronomic parameters

maher sensors

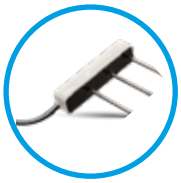
- It enables greater control through data of all environmental and agronomic variables that influence crop development.
- Readings can be accessed in a graphical and intuitive format from any device with Internet access.
- Option to include a power supply kit (solar panel + battery) and a mast for sensor mounting.

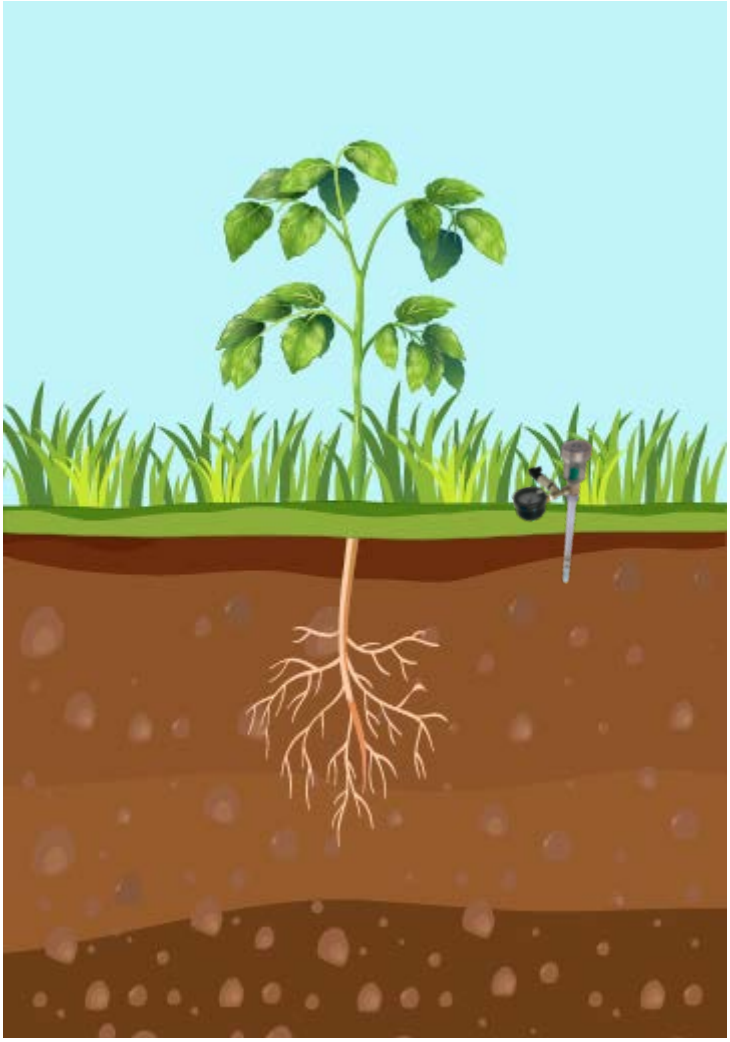
>> Fully customizable with the required sensors

Agricultural sensors

Collect relevant data on crops

Connect agricultural sensors to our controllers to obtain precise real-time data, thereby optimizing irrigation and crop management intelligently and efficiently.





OTHER PRODUCTS AND ACCESSORIES

maher mezcla

Mixing of two waters with different salinities

CICLÓN Filtros

Automatic filter cleaning

Probe calibration

Calibration solution for pH and EC probes.

Solenoid valves

Solenoid valves for chemical injection

Flow meters and venturis

Accessories for irrigation systems

Why trust us?

Maher Electrónica

OVER 25 YEARS MANUFACTURING EQUIPMENT FOR IRRIGATION AND CLIMATE CONTROL

Highly **reliable** and easy-to-use equipment

PRIORITIZING CUSTOMER SERVICE

Efficiency and speed in resolving issues with a personal and direct approach

YOU WILL FEEL OUR SUPPORT

We provide training so you can understand our equipment and offer your clients the **best service**, with our full **support** at all times.

CLOSENESS AND FLEXIBILITY

A willingness to **listen** and **adapt** our equipment to the needs of the sector

R&D&I

We research and listen to the **needs** of installers and farmers to develop our equipment and evolve to meet those needs

Join agricultural digitalization!

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Smart Agrocontrollers

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