



# IRRIGA SMART AUTOMATION FOR IRRIGATION 4.0

## THE ASSISTANT 4.0

### Daily

Uses meteorological data and estimates water requirements based on the agro-meteorological model.

Prepares your daily irrigation plan according to the irrigation cycle

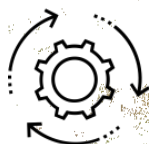
### At each irrigation cycle

Transmits commands to the control unit, starts watering and controls the volumes delivered

Stores the quantity of water delivered for programming the next cycle



MEASURE



ESTIMATE



UPDATE



IRRIGATE

# Irrigation 4.0

The system uses meteorological information to estimate the water requirements of the crop and to calculate the watering volume (DSS). It receives and processes the volumes of water delivered and schedules the daily supply according to the irrigation cycles. It then transmits commands to the remote unit to control the valves.

## Components

- 1. Cloud-connected plant control and automation unit. Controls hydraulic solenoid valves, flow meters, and plant pressure sensors
- 2. Pressure sensor
- 3. Supply water filter unit
- 4. Hydraulic valves (5 + 1 delivery) with bistable solenoids
- 2. Water flow sensors for flow measurement. Flow sensors or volumetric sensors are used.
- 3. Irriga-Smart DSS platform: transmits commands to the remote unit to control the valves. Receives and processes the volumes of water delivered and schedules the next delivery according to the irrigation cycles



## The software application

- Configuration of the plant and soil characteristics
- Configurator of the calendar of irrigation cycles
- Real-time valve control panel
- Irrigation log



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