



aquaReg

Irrigation Water Monitoring Unit



ADASA

INNOVATIVE SOLUTIONS
FOR WATER & ENVIRONMENT

Benefits



Save water



Save time



Save energy

Thanks to:

- Remote irrigation control.
- Management of your network.

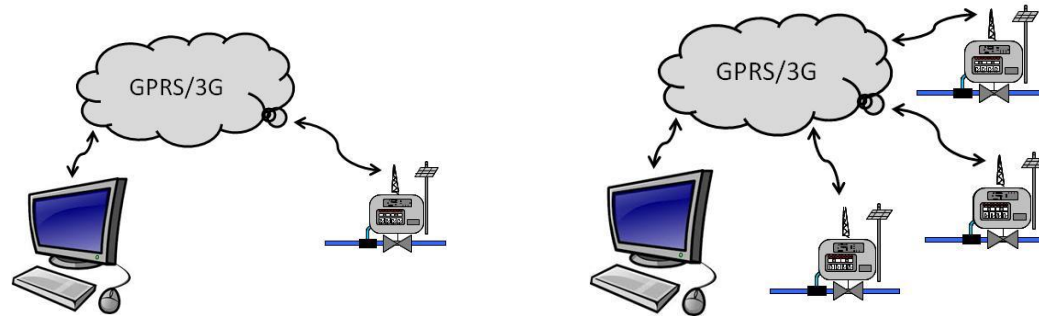
Why aquaReg

- 1. Make it easy:** The same product for 1 or 1000 units.
- 2. Choose the power supply that best fit your application:**
 - Non-rechargeable battery.
 - Solar panel.
 - AC/DC adapter.
- 3. Simplify network design and maintenance:** Remote connection using 3G network.
- 4. Operate in real time or autonomous mode:** use the battery only when it is needed.
- 5. Improve your management:** ready to add sensors to your water irrigation network, when additional info is required.



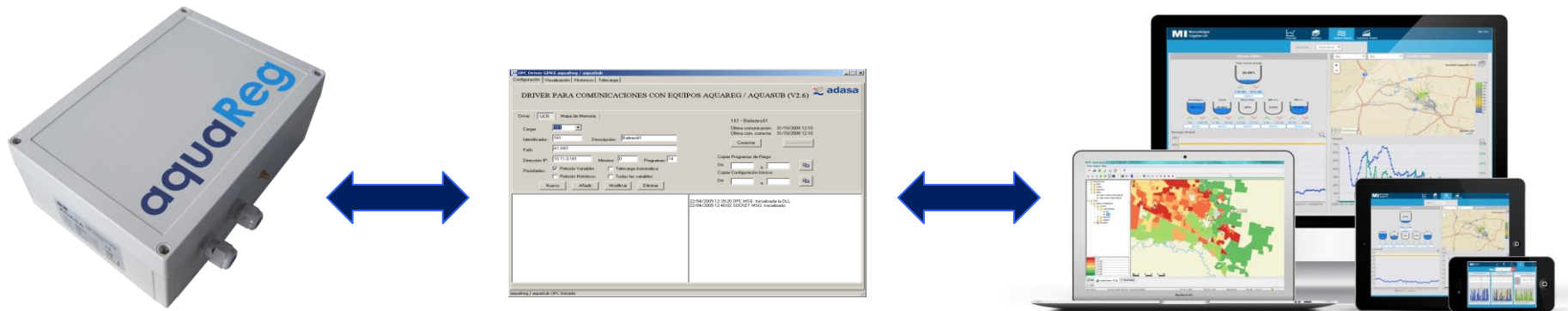
Remote communications through 3G networks.

Same communications system for 1 and 1000 units.



OPC driver available to manage aquaReg from your own SCADA.

Avoid manufacturer dependence.



Non-rechargeable battery power operated.

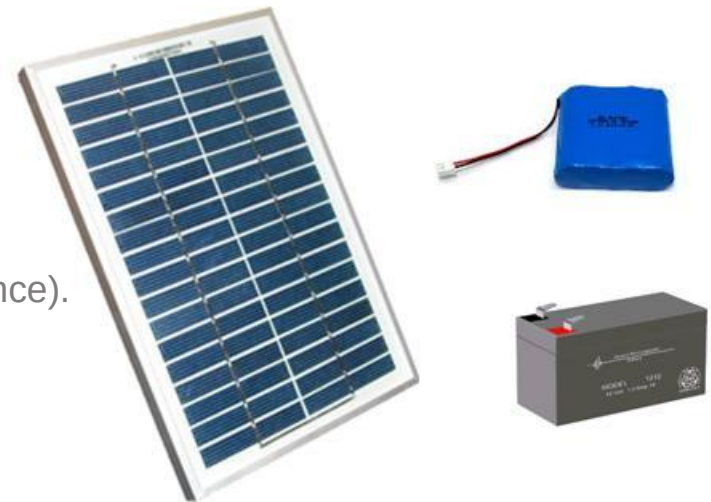
- Easy installation.
- High autonomy (up to 8 years).



Solar panel and rechargeable battery.

- Only 5W solar panel required.
- Online operation.
- Solar panel charger included.
- Battery options:
 - 1200mAh SLA battery (low cost).
 - 2750mAh Lithium-ion battery (T performance).

(Solar and battery power are logged to help on diagnostics).



Hydrant Control Capabilities

Manage up to 4 hydrant units made of:

- Water meters.
 - Pulse output water meter.
 - ContaZara® water meter.
- Solenoid valves:
 - 2 or 3 wire latch solenoid valves.
 - 9, 12 or 24 V valves.
 - Current limited driver.

Valuable features:

- Automatic retry in case of failure.
- Open and close failure alarms.
- Water meter registers stored every 5 min.
- Only non-zero values stored (configurable).



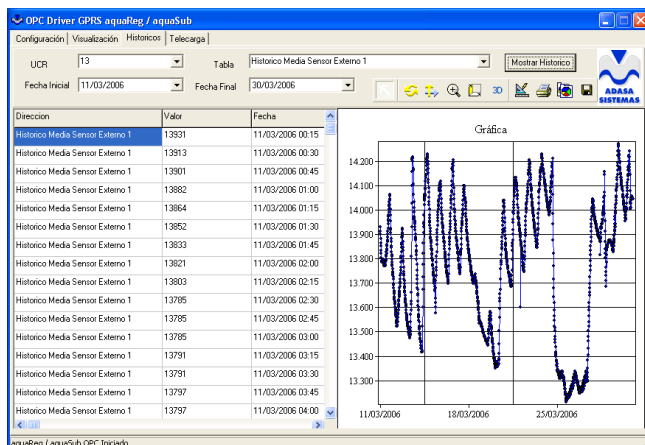
Additional Capabilities

Sensor inputs: Monitor pressure, temperature, level, moisture...

- Up to four 0..20mA or 0..10V analogue inputs.
- Sensor power supply management (optional).

Digital inputs: intrusiveness, float level switch, maintenance indicator...

- Up to eight digital inputs.
- Log ON/OFF transition.
- Processed as alarm or event .
- Force communication.



CE marking (EUROPEAN UNION)

- Electromagnetic compatibility.
 - ETSI EN 301 489-7.
 - UNE EN 61000-6-3:2002.
 - UNE EN 61000-6-2:2002.
- Electrical security.
 - UNE EN 60950-1:2003.
 - UNE 20324:193.
- Electrostatic discharge.
 - UNE EN 6100-4-2:1997.



CENTRO NACIONAL TECNOLOGIA REGADIOS (MAPYA – Ministry of Agriculture, Food and Environment Affairs) (SPAIN)

- Power supply.
- Operation modes.
- Power consumption.
- Valve management.
- Communication ports.

How Balearics Optimises the Water Demand of its Irrigation Communities?

“We are really concerned about the efficient use of water , and the installed remote control system really helps us to optimise and control the water from each parcel of the different communities.”



Félix Díaz de Rada

Director of the Irrigation Upgrade Dpt.
TRAGSA

CLIENT: TRAGSA, Irrigation Solutions (SPAIN).

GENERAL GOALS:

- Reuse wastewater for irrigation.
- Centralised management of water demand.
- Improve water delivery to irrigation users.

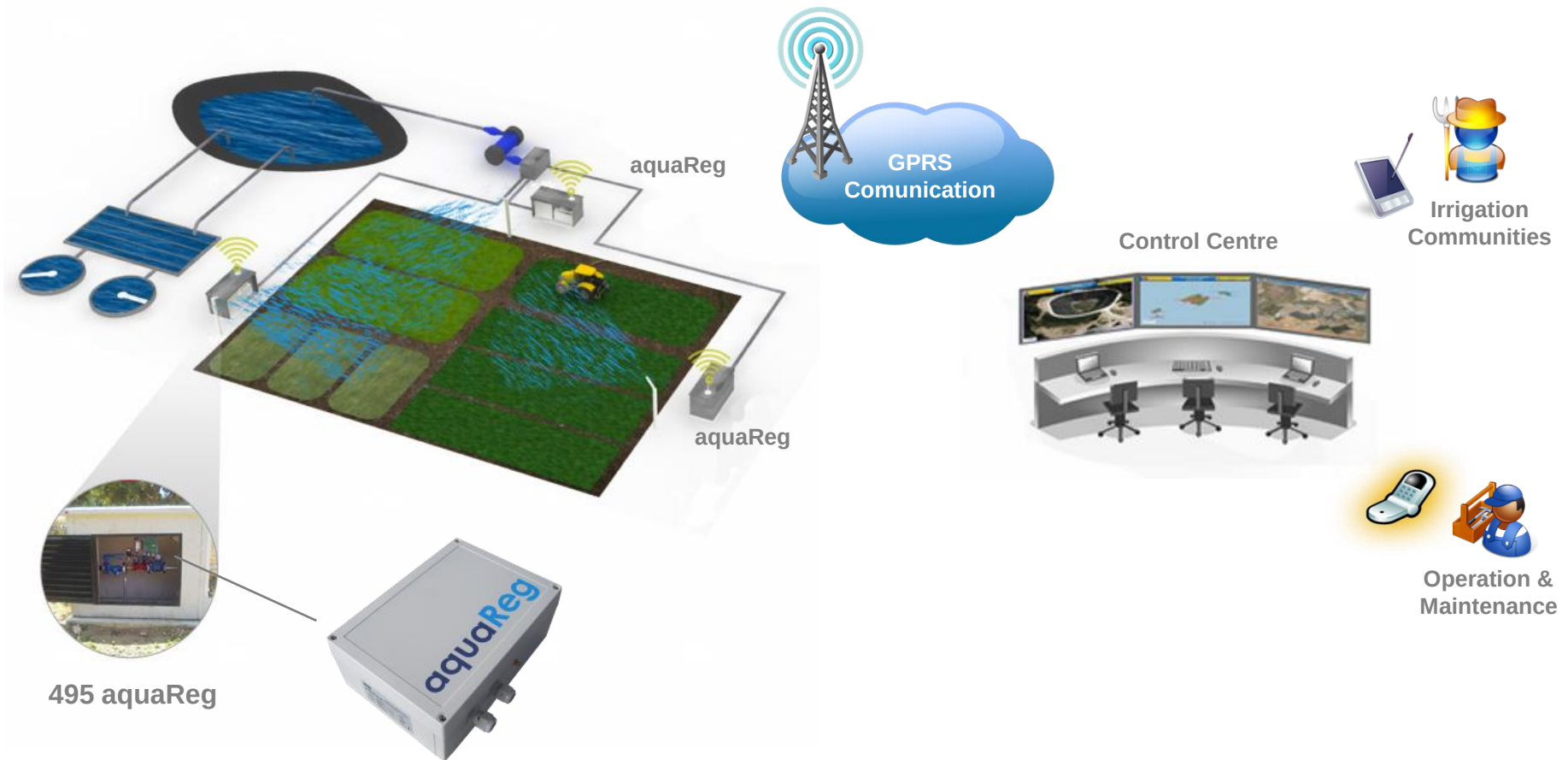
BENEFITS

- Improve water delivery to irrigation users.
- Enhance decision making capability.
- Increase cost savings from improved efficiencies.
- Guarantee the required flexibility for future updates of new equipment and requirements.



Success Case:

How Balearics Optimises the Water Demand of its Irrigation Communities?



Improving Irrigation Efficiency and Customer Service. Murrumbidgee Irrigation Operation and Planning System.

CLIENT

Murrumbidgee Irrigation Limited (AUSTRALIA).



GENERAL GOALS

- To assist MI with short and long term water planning and so operational efficiency improvement.
- To reproduce near real time the irrigation's supply and drainage system behaviour to improve operations.
- To assess different possible scenarios for optimisation of the channel system's operations, as well as flood management.
- To provide insight into operations in order to make better, data based decisions.

BENEFITS

- **Save water and improve customer service:** By utilising forecasts of inflows and water orders it is possible to optimise the operation of regulators and reservoirs to meet all water demands while minimising unnecessary water losses.
- **Save time:** MI staff won't waste precious time retrieving data from multiple sources.
- **Better decisions:** Enhanced data quality and consistency, so MI can have more confidence in the accuracy of your data.
- **Save money:** Improved water ordering accuracy (Water NSW).



"I was able to perform tasks in 4 seconds that we used to take up to 3 months."

Noel Heath

Operations Manager

Murrumbidgee Irrigation



ADASA

www.adasasistemas.com

www.adasaproducts.com