



IRRIGATION

HYDROPASS

Automated system
for the distribution of irrigation water

S.I.S.

Smart Irrigation System



ACMO

VALVES and TECHNOLOGIES for WATER WORLD

HYDROPASS system is the result of AC.MO S.p.A. research and development in the management and control of irrigation water distribution. The infield head integrates a hydraulic component intended for water metering and regulation, with an electronic component for monitoring and control, both protected by a stainless steel case. HYDROPASS is a stand-alone unit, independent from external power supply and equipped with solid communication interfaces.

S.I.S. Smart Irrigation System is our ultimate monitoring system for the optimization of water resources and the planning of irrigation.

After several years of research, investment and more than 15.000 successful installations in the last 4 years, an increasing number of water authorities are using our system, achieving brilliant results in terms of water and energy saving.

Integrating HYDROPASS and SIS represents a real opportunity to achieve the environmental sustainability of the irrigation process.



- + Efficiency
- + Productivity
- + Competitiveness
- + Quality
- + Sustainable use of water resource
- + Agricultural income



- Management costs
- Waste
- Energy consumption
- Subsidence



The Hydrometer

One-piece body PN 16, robust and reliable, the result of years of research and field experience, energetically autonomous with its own battery (10 year life-time), simple to install and easy to use (ready to use), in compliance with new standard EN 14267. Available in DN 50, 65, 80, 100, 125, 150 and in 33 different configurations.



The metering technology

The first mechanical flowmeter for irrigation with metering technology certified by European Laboratory according to standard EN 14268.

HYDROPASS, the smarter solution for irrigation water management



The control valve

Globe control valve with elastomeric diaphragm assembly; tested for an average of 10.000 operations, is suitable to work with low pressure (0,5 bar) and high pressure (16 bar).



The water flow limiter

Full bore and self-modulating elastomeric ring, with low head losses, integrated in the hydrometer with anti-tampering system.



Ultra low-power electronic unit (stand-alone)

The electronic unit is integrally mounted into the hydrant and runs it totally. It is devoid of any component that can be damaged as display or buttons. It is inserted in a case with protection IP68, equipped with its own battery. The battery is replaceable and guarantees an autonomy of at least 10 years. The unit can be configured in standard, hybrid and contact less version.



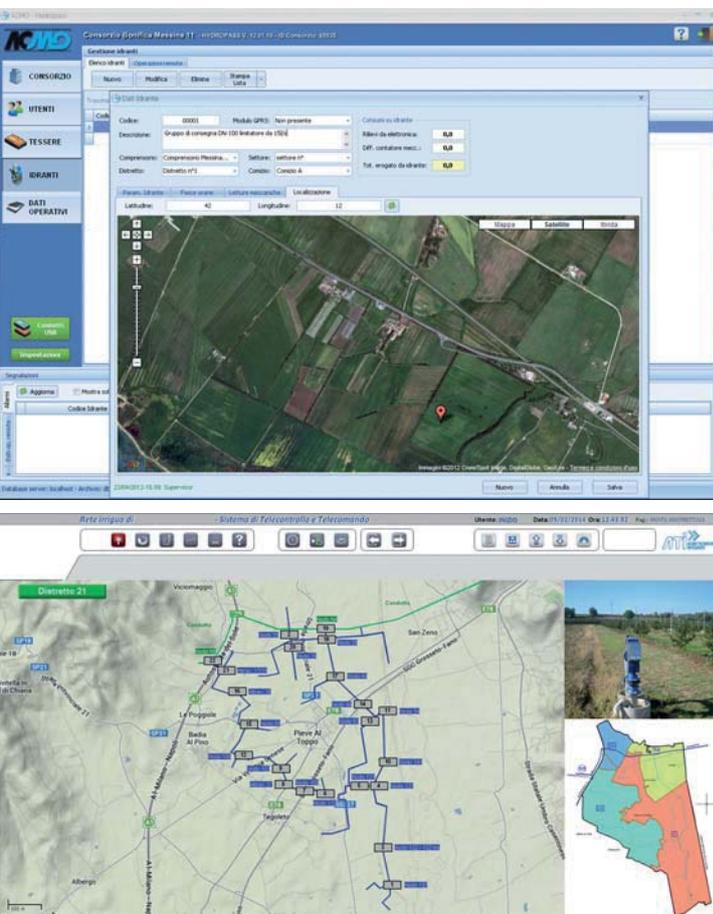
Ultra low-power communication unit

Fully autonomous equipped with latest generation of GPRS modem transmission, integrally mounted into the hydrant. It is equipped with a low visual impact antenna ; inserted into an IP68 protective case with 10-year life replaceable battery.



The electronic cards (HydroKey)

They allow the user to release the water flow and the water authority to carry out the necessary checks and maintenance operations. The cards are equipped with latest generation of display, customized graphic, 4 buttons pad (user friendly), replaceable lithium battery with 5-year life guarantee, protected by an IP67 case. The interfaces are issued to the Water Authorities and are available in "standard", "hybrid" e "contact less" version.

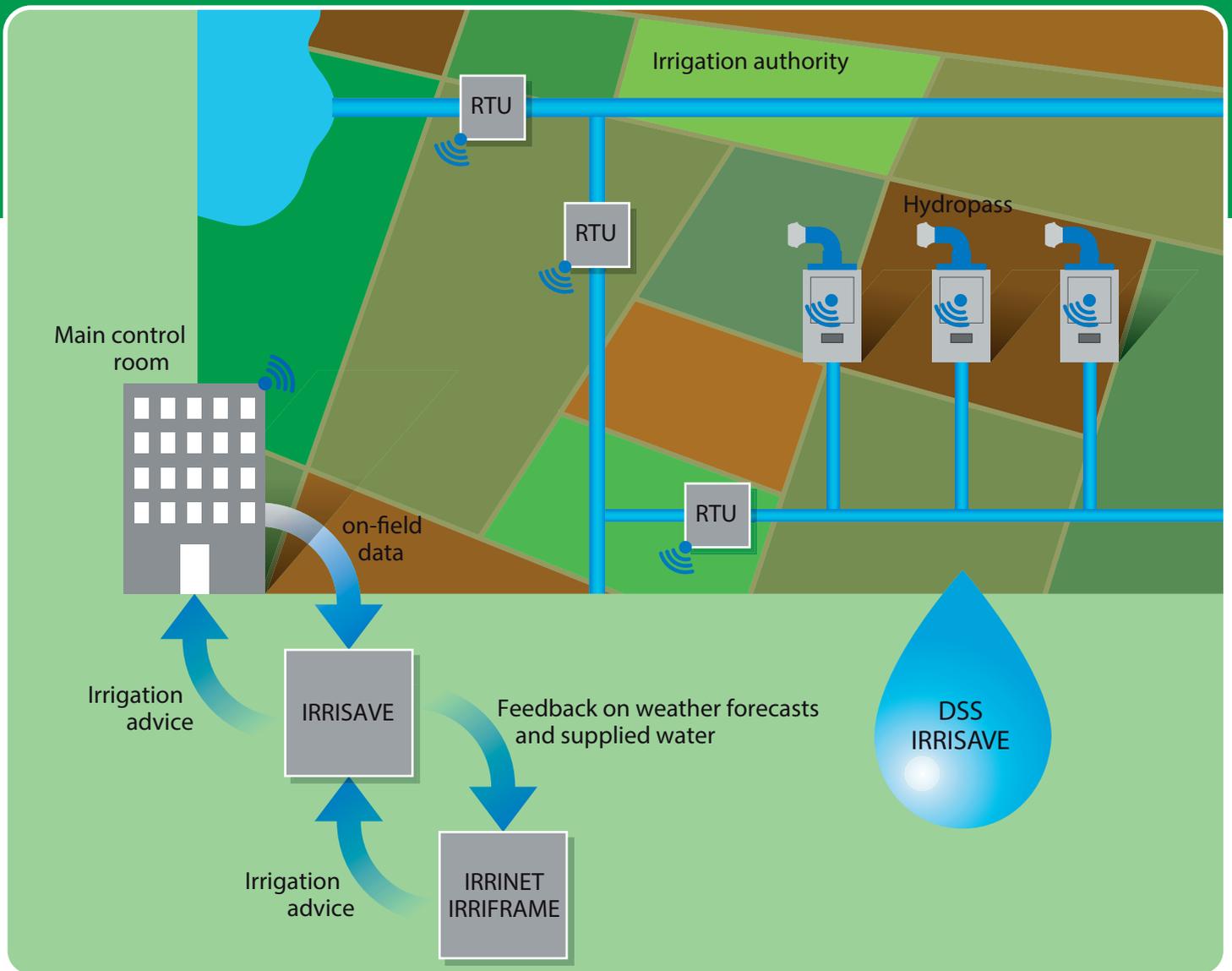


The management software (Hydrosoft)

It manages the whole system. It is realized through the latest programming environment in Microsoft. Completely compatible with Microsoft operating systems, from Microsoft XP on. The "User Friendly" interface coupled with the latest graphic technology make the software intuitive, easy and enjoyable.

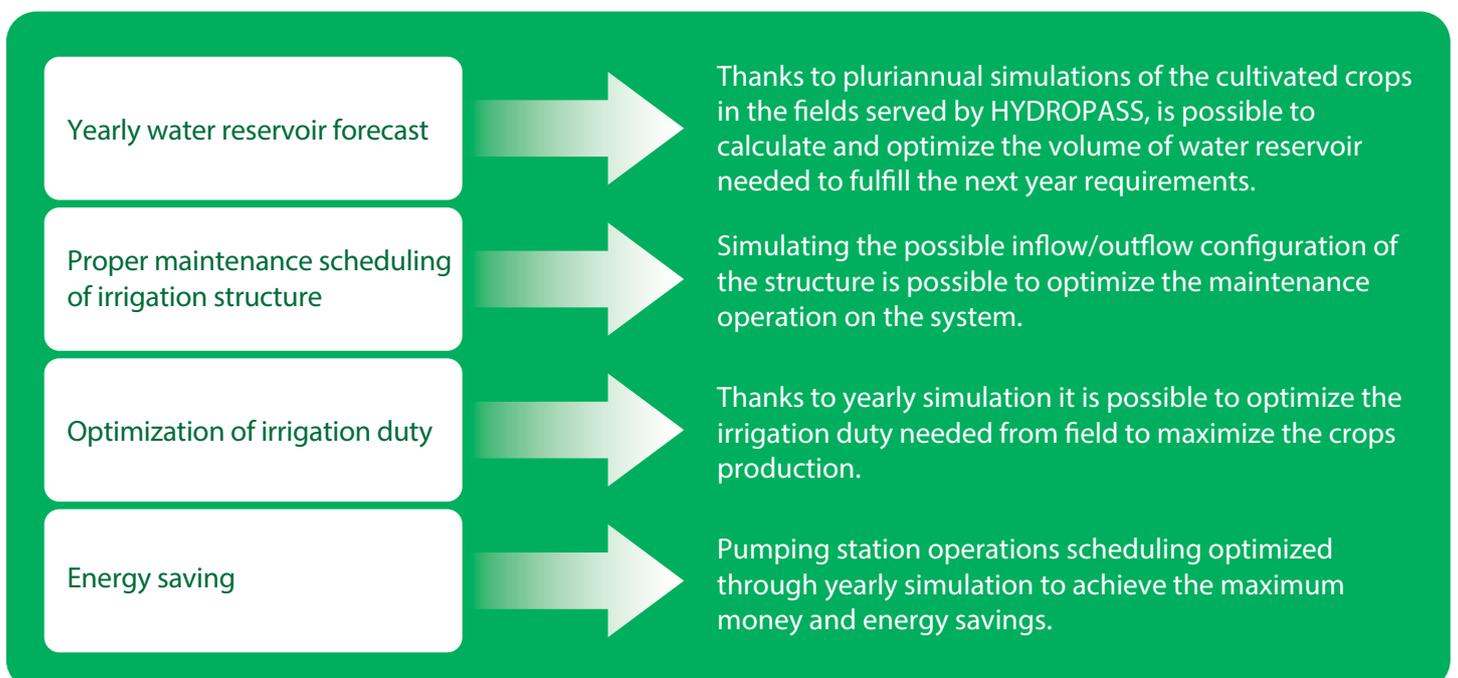
The system allows assessing the geographical location of each hydrant and uses Google Maps to represent a geo-referenced localization of them.

The software is equipped with an advanced managing system, which provides customized prints and reports. The management software (Hydrosoft) can be coupled with our S.C.A.D.A. and S.I.S. systems.



Forecasted irrigation

The SIS - HYDROPASS system can be coupled with the national databases with weather and soil data to forecast the most sustainable irrigation scheduling. This forecasted scheduling leads to immediate and clear improvement of the irrigation operations with consequent economic, management and environmental benefits.





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