



# Tethys

Water Distribution  
Control System



## Tethys Water Distribution System

A unique solution for water providers, engaging consumers and managing water orders using the Tethys app.



# The Tethys system

Tethys provides a unique solution to water providers, engaging consumers and managing online water orders through the app. This unique solution represents a significant breakthrough in terms of water provider's capabilities to meet consumer demand easily and efficiently, while maximizing their available water resources, energy and labor force.



Real-time reporting of water volume, flow, and pressure at any point in the system



Water resource management, taking into consideration the different sources of water and their prices



Exporting the water consumption data to billing production systems



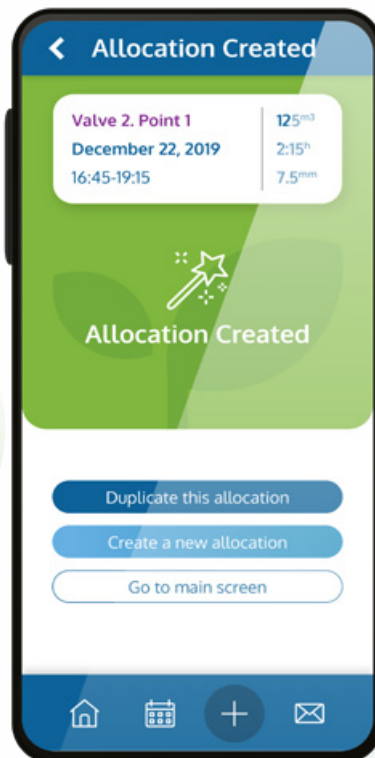
Monitor and control of a water distribution system regardless of the number of consumers, valves, meters, and size of the distribution area.



Confirmation of the consumer's water order is received within seconds



Expanding the Tethys system for irrigation control in consumer fields



# How does it work?

Each of the water provider's control valves and meters are connected to wireless Motorola controllers, managed by the organization's control center.

Through the Tethys system, the water provider defines the hydraulic parameters and allotted water budget for each consumer. This data forms the basis of the algorithm, enabling Tethys to operate dynamically, managing consumer's future needs in relation to available water resources and system capacity.

The biggest innovation is the Tethys app, providing the capability for the consumer to independently interact with the system and define their desired water window. Through the application, consumers can choose the amount of water they need, as well as the exact day and time. The order data is checked according to the system's hydraulic capabilities during the selected time window and the user's water budget balance.

Assuming available water and system capacity, consumers receive a confirmation for their order within seconds.

At the designated time, the Tethys system will automatically open the control valve to accurately supply the amount of water ordered, as well as monitor and report in real-time the flow rate and other relevant criteria.

The Tethys application also allows users to receive information about future water orders, the current status of their water budget (daily, weekly, monthly, yearly), system alerts, as well as the possibility to send and receive notifications from the system administrator.

## The entire system is based on Motorola's control system; one of the world's most advanced wireless control systems.



### ICC PRO

Advanced central control software, serves as a water and irrigation management center



### IRRINET ACE

Versatile, scalable control solution with a range of I/O modules



### IRRINET M

Powerful and intelligent RTU supporting digital and analog I/O



### PICCOLO XR

Compact, low power, high efficiency unit, providing DI/DO



### PICCOLO RTU

Top-of-the-line single cable solution



# Tethys is the ultimate solution for water providers and their consumers



Consumer self-management of water orders by friendly application



Motorola wireless control system for automatic control of valves, monitoring water quantities and flow rates



Maximum utilization of the providers water supply and energy capabilities



Management of water budgets and flow rate constraints

