



# RTCP

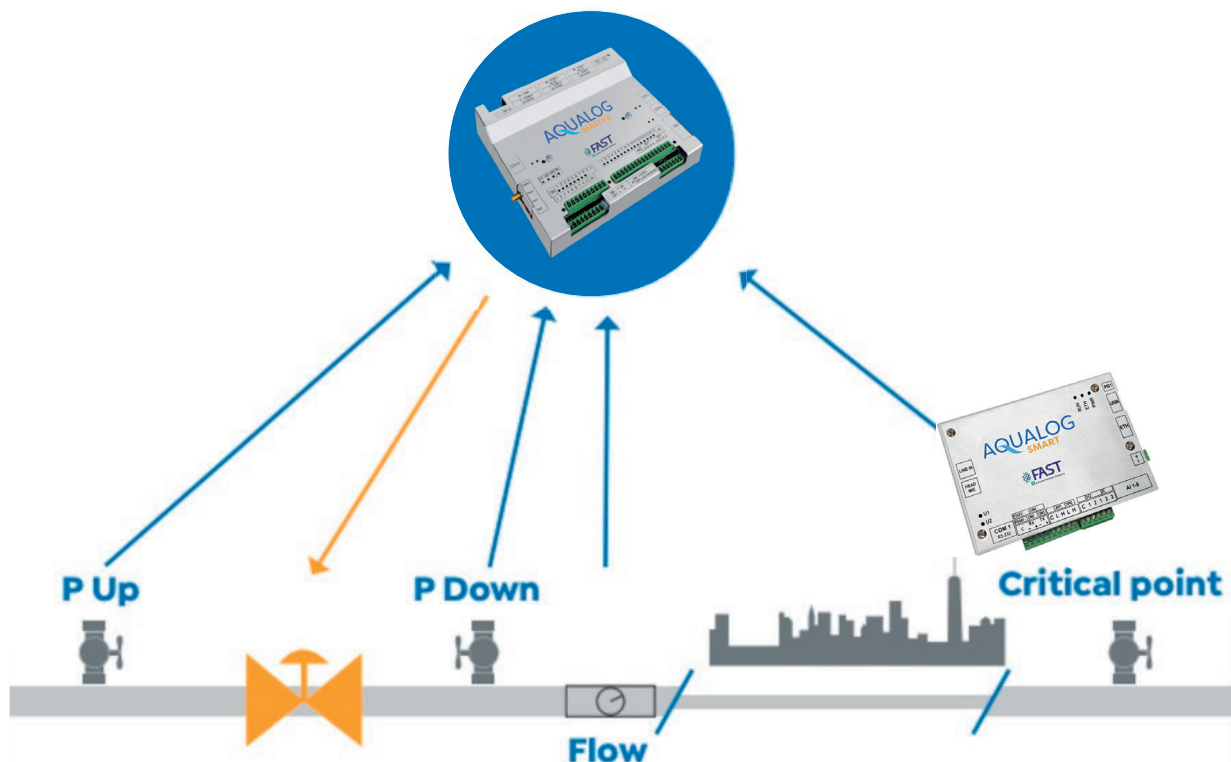


**RTCP - Real-Time Critical Point System** is the solution for **automatic and continuous pressure control** at critical points (CP) in water districts.

**Operating in real time** on pressure-reducing valves (PRV) or pumps, it instantly adjusts the network parameters to changes in water demand and maintains optimal operating conditions in the **Pressure Management Zone (PMZ)**.

The control system is based on real-time measurements transmitted from the critical point and enables operators to monitor pressure readings, manage faults and receive automatic alerts via text message or email. The system consists of:

-  **Peripheral at the critical point:** detects and transmits pressure readings at the critical point (CP) in real time;
-  **Peripheral controller:** adjusts the PRV set point or the activation of the pumps to maintain the desired pressure in the PMZ.



**Diagram 1** RTCP functional diagram

## RTCP: features and advantages

The solution supports the operator in reducing leaks, preventing faults and minimising energy consumption, thereby contributing to a more efficient, stable and sustainable network:



### **Pressure always under control**

It precisely and continuously regulates the pressure at the critical point, improving the stability of the network and preventing dangerous transients.



### **Control based on real data**

The control system uses actual measurements transmitted in real time, thereby overcoming the limitations of solutions based on estimates or statistical models.



### **Reduction in leaks and costs**

Pressure optimisation helps to reduce water leaks, energy consumption and the operating costs.



### **Easy to set up**

The operator sets the pressure value to be maintained at the critical point; the control logic automatically manages the adjustment.



### **Operational reliability**

Backup strategies ensure that pressure control is maintained even in the event of instrument failure or a loss of real-time communication between them, thereby guaranteeing service continuity.



### **Monitoring and integration**

An intuitive web interface, automatic notifications and integration with leading SCADA systems make PMZ management more effective.