

demEAUmed Monitoring Control Tool

Eight categories of innovative technologies together with a monitoring control tool and decision support system (DSS) are integrated and demonstrated in the demonstration site of the European project demEAUmed 'demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities.' This factsheet presents **demEAUmed monitoring control tool**.

Description

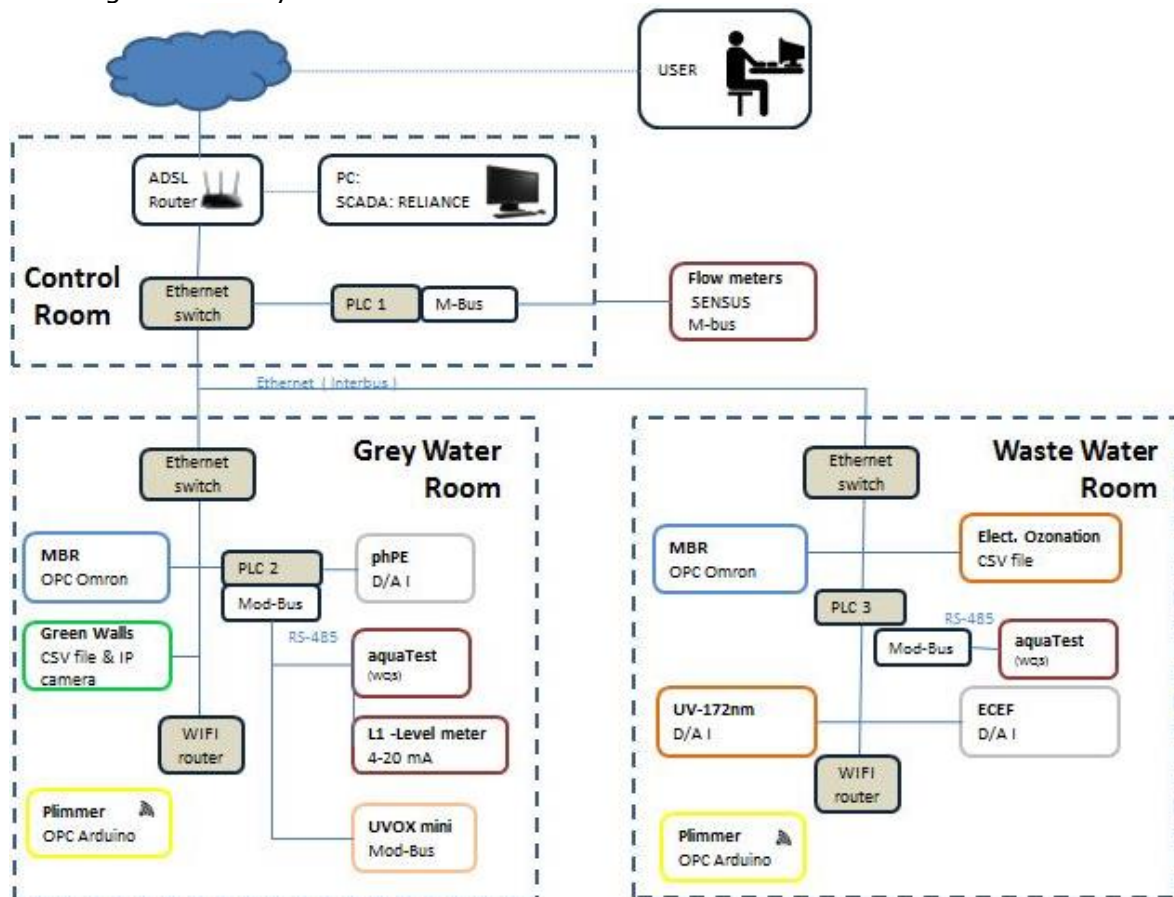
demEAUmed monitoring control tool is a platform to show, control, generate alarms and record the information of the different water values thought the hotel.

The physical architecture is a Power-Line Communication (PLC) network which takes the inputs of the different emitters and manages the generated information where a Reliance licensed system, SCADA/HMI, is used for the visualization.

The core of the system is a Control PC with the SCADA software. These industrial SCADA can get the data from technologies directly throw Ethernet

connection and from the PLC network. The PLC network integrates 3 Phoenix Contact PLC, one as a master and the other two for the main water areas of the facility (see the figure below).

The SCADA allows users to connect remotely. It allows displaying windows with real-time visualized data and controlling them, displaying and acknowledging current alarms, displaying historical data, trends and reports as well as displaying historical alarms.



Applicability

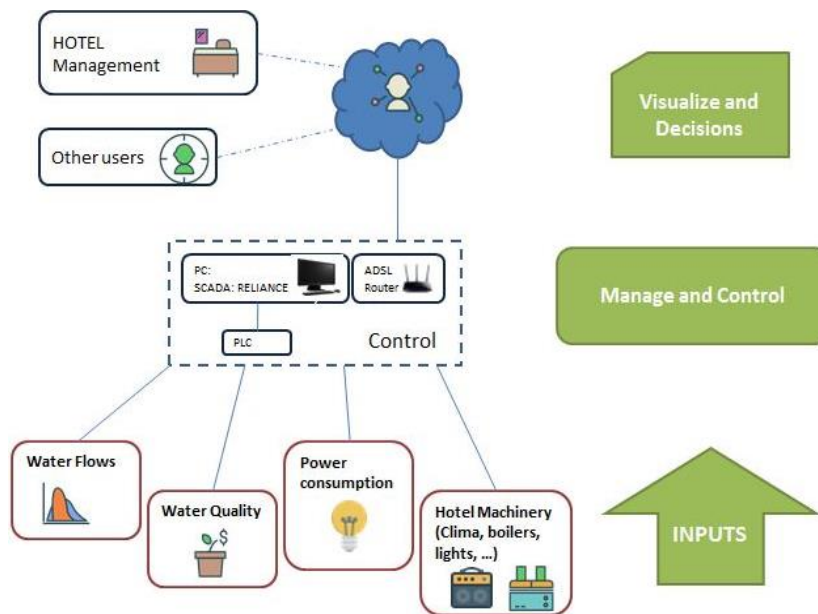
demEAUmed monitoring control tool can be used in facilities that require efficient water management since it is important to know, in real time, the different flows, quality and amounts of water. In addition, the tool can be used to improve and manage other information and values about the hotel heart, such as room/areas temperature, electrical consumption, machine information (pumps pressure, flow, boilers temperature, etc.)

The tool is applicable for other facilities/sectors such as the urban use in small and remote communities dealing

with water shortages and commercial buildings market in specific water stressed areas.

Innovation Factor

- The use of industrial application for water management in hotels providing information about water quality and consumptions.
- Introducing Big Data in Resorts & Hotel Management to improve efficiency and reduce cost.



Contact:

Jordi Cros Herrero, ADASA

Tel.: (00 34) 932640602, Fax: (00 34) 932640656

Email: jcros@adasasistemas.com

Please find further information and updates on demEAUmed project, its technologies, DSS and monitoring tool at: www.demeaumed.eu



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