

aquaDam

Dammed Water Quality Monitoring



INNOVATIVE SOLUTIONS
FOR WATER & ENVIRONMENT

The level of eutrophication found in most reservoirs and dams represents a serious problem for the management of this resource. The excess of nutrients that accumulates (wastewater discharge and fertilisers, and so on) in them causes high primary production. The excessive amount of produced biomass decomposes and leads to serious anoxia problems with consequent appearance of toxic substances that are aggravated by stratification. A large part of primary production is often made up of cyanobacteria that increase the risk of cyanotoxin production.

aquaDam is the best solution for monitoring water quality in reservoir water.

The system consists of a multi-parameter, self-positioning system that enables measurement cycles to be carried out both automatically and autonomously of the representative parameters of quality at various depths in reservoir water.

It is an effective system for reservoir water management that enables the minimization of the operational costs and the organoleptic problems in the drinking water process.

STRUCTURE

- Multiparameter analyser: temperature, pH, conductivity, redox, oxygen, turbidity, chlorophyll and attenuation of the luminous intensity (Secchi disk equivalent)
- Control system of the multiparameter analyser, which manages the positioning, communication and self-cleaning of the analyser
- Download data, reporting and remote control of the equipment or a network of the equipment

OPERATION

AUTOMATIC SAMPLING

aquaDam carries out automatic measurements of the parameters at different depths in order to develop profiles graphics. The frequency and depth of the measuring points are configurable.

aquaDam has a cleaning system that enables the extension of the system's autonomy.

Data are collected automatically by the control center for their analysis and operation.

MANUAL SAMPLING

The measurement process is set off by a local order from the aquaDam keyboard or by a remote command.

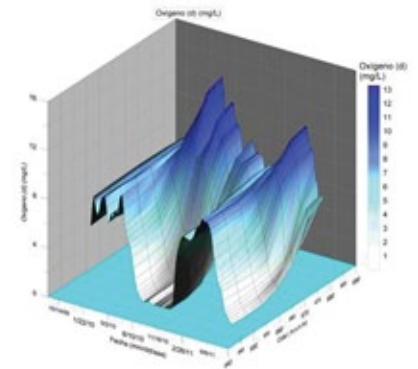


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NOTEWORTHY CHARACTERISTICS

- Complete system, from the measures collection to the description by profiles graphic
- Historic record of all profiles developed
- Key information for reservoir water management , enabling the definition of the ideal depth for water extraction in real-time
- Automatic and remote operation, with a high autonomy because of the robustness of its mechanical design and the patented cleaning system
- Easily integrated into control and operational networks (water quality information systems and so on)
- Quick and easy setting-up



GENERAL FEATURES

Power:

220 VAC/50 Hz
Request other options (220 VAC/60 Hz)

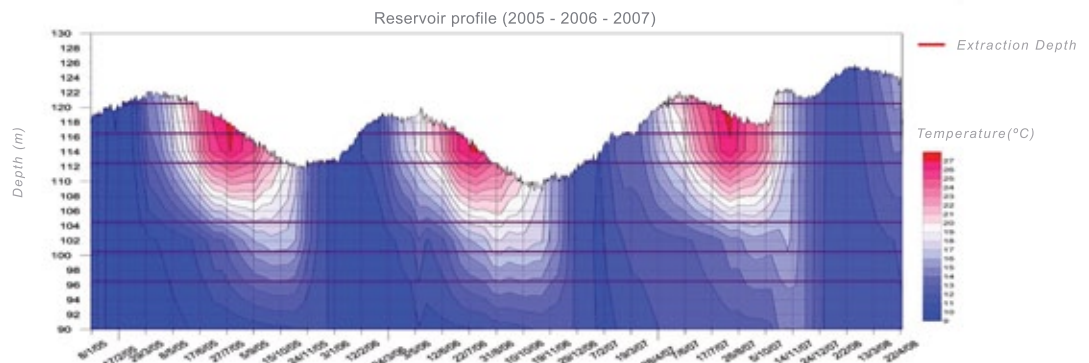
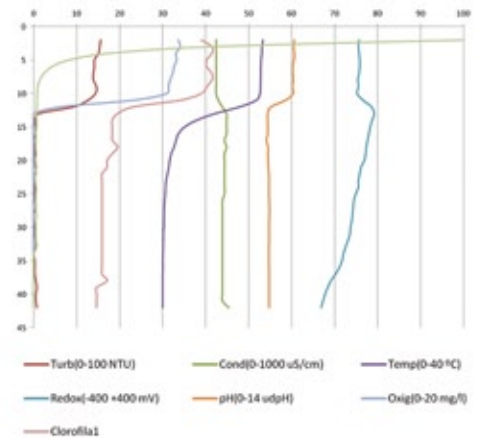
700 W without the complete cleaning system
3300 W with the complete cleaning system

Communications:

Profibus DP, integrated GSM/GPRS Modem,
Front panel RS-232 port,
RS-232 port / RS-485 terminals

Sondas:

Temperature	0 ... 50°C
pH	0 ... 14 uds pH
Redox	-2000 ... +2000 mV
Conductivity	0 ... 8000 uS/cm
Oxygen	0 ... 20 ppm O ₂
Turbidity	0 ... 300 FAU
Clorophyll	0 ... 200 mg/l Chla
Depth	0 ... 80 m
Secchi Disk	0 ... 100%



Adasa reserves the right to modify the technical features.



www.adasaproducts.adasasistemas.com
adasaproducts@adasasistemas.com

SPAIN

C/ José Agustín Goytisoló 30-32
08908 Hospitalet de Llobregat
(Barcelona)
T +34 93 264 06 02
F +34 93 264 06 56

All ADASA products are designed and manufactured according to the highest standards of quality:

ISO 9001 Quality Management
UNE 166002:2006 R&D and innovation Management
ISO 14001 Environmental Management
OHSAS 18001 Health and Safety