

Automatic Stations for Water Quality Monitoring


ADASA

INNOVATIVE SOLUTIONS
FOR WATER & ENVIRONMENT

Real Time Monitoring of the Water Quality of Freshwaters, Dammed Waters, Seawaters and Wastewaters

Adasa automatic stations provide a comprehensive solution to the needs for water quality monitoring. Being designed to continuous and automatic operation, they provide real time information on the quality of different types of water bodies (freshwaters, dammed waters, seawaters and wastewaters).

Stations include automatic cleaning and calibration systems to ensure their online operation to be lengthened in time with reduced maintenance needs.

Adasa joins over 25 years of experience in the design, construction and maintenance of automatic stations, standing out for its renowned experience as environmental networks operator, providing a strategic domain expertise for its operation and maintenance.

Adaptability

Adasa stations are adaptable to the functionality and waterbody to be monitored, as well as to the specific requirements of each installation. The stations allow configuring:

- The water collection system and automatic sampling.
- Types of station according to its structure and implementation.
- The number of parameters and analysis equipment, depending on the environmental sensitivity and characteristics of the environment.
- The system of acquisition, processing and possibility of sending data to a remote control center.

In addition to standardized solutions, Adasa offer to its customers the possibility to design and build custom-made stations as they respond to particular needs and requirements.

Typology

- Fixed: Structure of the civil works for permanent locations or partly floodable areas.
- Portable: Station housed in a portable metal, container type that allows its relocation. Available in different sizes depending on the number of analyzers required.
- Mobile Unit: Self-propelled vehicle or trailer that contains the station. Allows frequent relocations and temporary campaigns.

Applications

- Specific and systematic diagnosis of the freshwaters and dammed waters according to the river sections and their uses (supply, fish life, bathing, irrigation, etc...).
- Warnings alert for water pollution episodes.
- Protecting water collection for human consumption.
- Control and monitoring for lakes and reservoirs eutrophication.
- Real-time monitoring of water quality in bathing areas.
- Control of circulating water pollution in wastewater collectors.
- Monitoring of the pollution load at the entrance of wastewater treatment plants.
- Optimization of wastewater treatment plants operation.
- Control and monitoring of discharges from wastewater treatment plants.
- Historical data recording of water quality and its evolution.



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Parameters

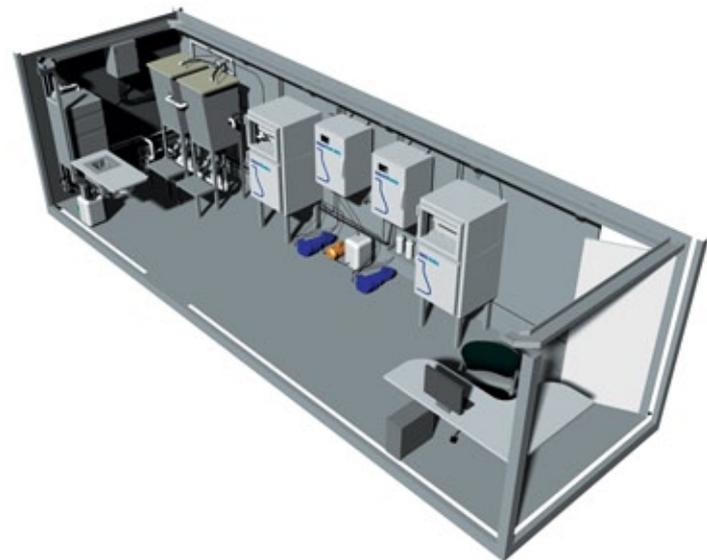
Number and type of configurable parameters as required for each station:

- Temperature
- pH
- Conductivity
- Dissolved oxygen
- Redox potential
- Turbidity
- Ammonium
- Nitrates
- Chlorides
- Phosphates
- Chrome
- Mercury
- BOD₅
- Organics
- *E.coli*
- TOC
- Hydrocarbons
- etc.
- Level and flow rate measurement.
- Refrigerated auto sampler.
- Meteorological parameters: temperature, wind speed and direction, relative humidity, solar radiation, rainfall, air pressure.

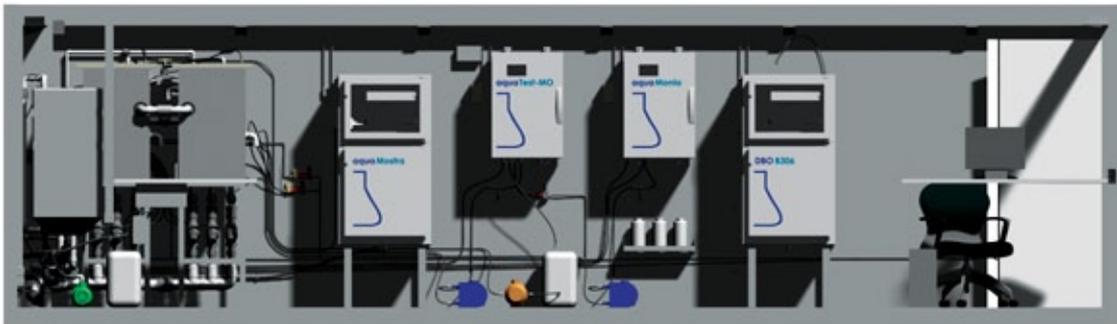


Communications

Adasa stations are ready for sending data to a remote control center, using standard communication systems: GSM, GPRS, radio, VSAT, etc., as well as their integration in multi-station networks.



 شرکت آلپرداز محیطا
تهران - خیابان آزادی - مابین خیابان شادمهر
و بزرگراه یادگار امام - شماره ۴۱۷ - واحد ۵
تلفن: ۰۲۱-۶۶۰۲۸۱۷۲-۵
E-mail: info@apm-co.ir
فکس: ۰۲۱-۶۶۰۲۰۵۰۹
Website: www.apm-co.ir



Adasa reserves the right to modify the technical features.



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

SPAIN
C/ José Agustín Goytisolo 30-32
08908 Hospitalet de Llobregat,
Barcelona, Spain
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