

aquaScout

Floating autonomous multi-parameter equipment



INNOVATIVE SOLUTIONS
FOR WATER & ENVIRONMENT

The dynamic view of water quality has become necessary for the proper management of the planet's water resources. For this purpose it is necessary to obtain basic, meaningful information on bodies of water.

aquaScout carries out continual automatic measurements of physicochemical parameters with complete energy autonomy and the capacity to transmit data to a control centre.

Readings taken by aquaScout make it possible to diagnose distortions and irregular situations in the medium. This is very useful for determining water quality, and for detecting and characterising waste.

aquaScout is the best solution for tracking water quality, enabling multiple and simple changes of location in the medium thanks to its floating structure. aquaScout is the ideal equipment for undertaking campaigns for water quality tracking or waste control in rivers and lakes. It can operate as an individual unit or as several units in a network.

STRUCTURE

aquaScout consists of a single compact buoy-type unit, which is autonomous and floating, as well as a management system for readings with self-cleaning to give it a high-level of autonomy and to minimize maintenance operations.

The system comprises the following elements:

- Multi-probe module that includes temperature, pH, conductivity, dissolved oxygen and turbidity probes.
- Autonomous energy system using solar panel and batteries.
- Probe self-cleaning system.
- Positioning and communications module (control, acquisition, storage and transmission of data).

OPERATION

aquaScout takes readings continually, enabling the configuration of data recording intervals.

The use of low consumption micro-processor technologies, together with advanced control software, guarantees that the aquaScout equipment can remain on stand-by and minimize energy consumption, which, together with the built-in solar powered battery charging system, lengthens its autonomous operation indefinitely.

aquaScout incorporates real-time or deferred data transmission capability, thanks to its GSM/GPRS communications system.

The communications protocol established is compatible with most control centres on the automatic system network for water quality data.

Cleaning cycles carried out periodically to ensure the quality of the readings and to lengthen system autonomy.

Data is transmitted to a control centre automatically for analysis and use.



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OUTSTANDING FEATURES

- Easy location changing.
- Easily transportable.
- Energy autonomy.
- Automatic cleaning system that guarantees long measurement periods
- GPS positioning.
- GSM/GPRS Communication.
- Measurement of parameters "in situ".

GENERAL CHARACTERISTICS

Power supply: 12V / 10W Solar panel with two rechargeable 6V / 7.5 Ah batteries

Communications: GSM / GPRS, USB port

Probes:

Temperature	0 ... 50°C
pH	0 ... 14 pH units
Conductivity	0 ... 20 mS/cm
Dissolved oxygen	0 ... 25 ppm O ₂
Turbidity	0 ... 400 FAU

Dimensions: 600 x 400 x 480 mm

Weight: 21 kg



Adasa reserves the right to modify the technical features.



شرکت آلاپرداز ممیما
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



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

SPAIN
C/ José Agustín Goytisolo 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