



P504

aquaTest-MO

Physical-Chemical and Organic matter Multiparameter device



Operation

- aquaTest-MO performs measurements continuously and the data recording intervals are configurable.
- Periodic cleaning cycles are carried out to guarantee the quality of the measurements and to extend the autonomy of the system.
- The data can be automatically collected in a control center for analysis and exploitation. At the same time, it performs a continuous analysis of the measurements with the capacity to generate alarms in other equipment or systems.

Design

- **Multi-probe module.** It includes probes for the temperature, pH, conductivity, ORP and dissolved oxygen parameters.
- **Optical measurements module.** Incorporates an absorbance measurement unit at 254nm for the determination of organic matter and SAC, and 860nm for measuring turbidity.
- **Automatic and configurable cleaning system** that adapts to any type of water with a high level of efficiency, even in wastewater.
- Data monitoring
- Acquisition
- Storage
- Transmission system.

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

aquaTest-MO P504 performs the automatic and continuous measurements of physical-chemical and organic matter parameters, integrating the measurement of these parameters into a single unit.

The combination of these measurements provides the necessary information for diagnosing the origin and causes of environmental disturbances. It's very useful for assessing the water quality and the detection and characterization of effluents, sewers and treatment plant operation.

Regarding communication with the control center, it allows the transmission of **MQTT** messages, which facilitates integration with **IoT-oriented services**, such as the **Adasa's ecoData® Alert and Monitoring System**.

Noteworthy Characteristics

- Measurement of physical-chemical and organic matter parameters.
- **Self-cleaning** system that allows long periods of autonomy.
- Possibility of extension and deactivation of measurements.
- **Organic matter**, correlateable to BOD, COD and TOC.
- **Sensitive parameterization.**
- Unique unit based on **LED technology.**
- Capable of managing the **capture system.**
- Simple and accessible instrumentation.
- **Easy integration** into the control and operations network.
- **Automatic and remote** operation, high autonomy and robustness.
- Respectful with the environment: no reagents required.
- **Transmission to the control center.**
Data can be automatically transmitted to the control centers and to **Adasa's ecoData® Alert and Monitoring System**, for analysis and management. In addition, aquaTest-MO P504 operates the results and alarms to additional equipment or to additional water monitoring networks.

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

- ISO 9001 Quality Management
- ISO 14001 Environmental Management
- EMAS Eco-Management and Audit Scheme



Technical Specifications

Supply voltage and consumption

24VDC (Máx. 13.3A). Optional external power supply 110-240Vac (50-60Hz) / 24Vdc

Communications

ModBus TCP, MQTT (ecoData®), Ftp, Remote Desktop and WEB access. Other options: Talk to us for more options

Physical ports

Ethernet (RJ45) and USB

User Interface

Touch screen (Color TFT 7")

Measurement range

Temperature	0 - 50 °C
pH	0 - 14 udpH
ORP	-1,000 - 1,000 mV -2,500 - 2,500 mV
Conductivity	0 - 20 mS/cm 0 - 100 mS/cm
Dissolved Oxygen	0 - 20 ppm O ₂
Turbidity	0 - 200 FAU 0 - 1,000 FAU
Organic matter SAC	0 - 400 Abs/m 0 - 1,300 Abs/m

Analysis frequency

5 - 120 minutes

Self-cleaning frequency

1 - 20 hours

Dimensions & weight

Coverage without connectors or brushings

Doors closed	693 x 675 x 320 mm H x W x D
Doors opened	693 x 1,260 x 450 mm H x W x D
Net weight	32 kg

Adasa reserves the right to modify technical features.