Siemex

DATASHEET
Doc. DS□0000 · Rev. A

KEY FIGURES

30
Digital sensors (max.)

IP65
Degree of protection, case

1200 mAh
Li-Ion battery

10,000+
Measured values in the data logger

RANGE OF APPLICATIONS

- Aquaculture / fishfarming
- Marine research and aquariums
- Water and waste water
- Food and beverages
- Chemistry
- Power stations
- Environmental monitoring
- Further applications of industrial liquid analysis

Siemex
+45 00 00 00 00
mal@siemex.tech
Siemex.tech

MODEL AMWA

Aquastar mobile water analyzer

Multiparameter Hand-Held Meter for up to 30 Digital Sensors





Top connectors:
sensor bus 5-pole M12 / USB 8-pole M12



Bottom connector:
power supply 3-pole M8

Description

To the multiparameter hand-held meter aquastar mobile up to 30 digital sensors can be connected and managed via the digital sensor bus in an arbitrary combination at the same time. There are measuring modules for pH-value, ORP (redox potential), temperature, conductivity and dissolved oxygen available. Further modules for parameters like, e.g., turbidity, CO2 or free chlorine are just being developed and can be connected via the sensor bus after a software update also at a later point of time. The modern ergonomic design with a colourful touch display as well as the three sensor keys on the front glass make the one-handed operation a child's play. The stored measured data, incl. time and date stamps, can be transferred via USB or Bluetooth directly to a PC, a tablet or a smartphone. The robust system is optimally suitable for being used in rough environments thanks to the impact protection as well as the high protection degree IP65 and guarantees you many years of joy with your aquastar mobile system.

Siemex

DATASHEET
Doc. DS□0000 · Rev. A

aquastar mobile water analyzer

Model amwa

CONTENTS

1 Overview
2 Your advantages
3 Technical Data
4 Product Views & Sensors

Siemex
+45 00 00 00 00
mal@siemex.tech
Siemex.tech

Your advantages

Simplest Operation

The system recognises which sensors are connected and builds up the user interface (menu structure) according to that. That means: the user are only offered useful functions for the connected sensors in the menu, TFT colour display with touch function and three additional sensor keys on the front glass, ergonomic housing design for a one-handed operation.

Profit from the Opportunities of the Digital Sensors

You can connect up to 30 digital sensors at the same time in an arbitrary combination and also measure with them. A typical example would be, e.g., the simultaneous measurement of the parameters pH, conductivity and temperature (measured value is calculated by the conductivity sensor) in a fish farm. In this case three sensors are connected by a Y-cable. For the temperature measurement no separate sensor is needed because in the conductivity sensor there is already a temperature sensor integrated.

Safe Investment for the Future

Thanks to the update function new software versions and sensor modules can easily be added by USB connection.

Built-in Air Pressure Sensor for Higher Precision

The built-in air pressure sensor allows an automatic air pressure compensation during oxygen measurement. So measurement errors caused by height differences are avoided.

Use the Data Logger Function

Store more than 10,000 measured values with time and data stamps in a freely set storage interval. By operating with a power supply the system can also work in continuous operation. With the data export function the measured data can be processed in common programmes like MS Excel, e.g.

Communication

The system can exchange data with other compatible devices via USB or Bluetooth. The communication of the sensors via sensor bus is done via ModBus-RTU protocol.



Siemex

DATASHEET
Doc. DS□0000 · Rev. A

aquastar mobile water analyzer

Model amwa

CONTENTS

1 Overview
2 Your advantages
3 Technical Data
4 Product Views & Sensors

Your advantages(continued)

Much Battery Power for a Long Measurement Operation

The powerful Li-Ion-battery with a charge capacity of 1200 mAh guarantees a long self-sufficient measurement operation without power supply. For higher safety the battery is equipped with a temperature monitor. The operating period depends on the number and type of the connected sensors and the set parameters for the energy-saving mode.

Energy-Saving Mode for Longer Mesurement Operation

The system can automatically activate different operating modes for saving energy. The parameters for this can be set individually according to your wishes.

Highest Hygienic Demands

The front glass with the touch function can be disinfected with alcohol, e.g., without any problems and so leaves no chance to viruses and pathogens.

Calibration Device

The instrument can also be used as calibration and diagnostic device for all digital sensors.

Technical Data

ELECTRICAL DATA □INTERFACES	
Sensor bus	Digital sensor bus with M12 plug (IP67)formax. 30 sensors
Bluetooth	Bluetooth (optionally)
USB	USB for data connection and software-updates with M12 plug (IP67)

ELECTRICAL DATA □ENERGY	
Power supply	24 V, 1ADC with power supply (belongs to scope of delivery) with M8 plug (IP67)
Battery	Li-Ion battery 1200 mAh

ELECTROMAGNETIC COMPATIBILITY (EMC) DIN EN 61326-1	
Interference emission	Class B
Interference immunity	Industrial requirements
Protection Rating	Protection rating III

CASE	
Dimensions	75 x 130 x 30 mm
Material	ABS black
Impact Protection	TPE
Front	Glass
Degree of Protection	IP65
Connection Plug M12 and M8	IP67

Siemex
+45 00 00 00 00
mal@siemex.tech
Siemex.tech

Siemex

DATASHEET
Doc. DS□0000 · Rev. A

aquastar mobile water analyzer

Model amwa

CONTENTS

1 Overview

2 Your advantages

3 Technical Data

4 Product Views & Sensors

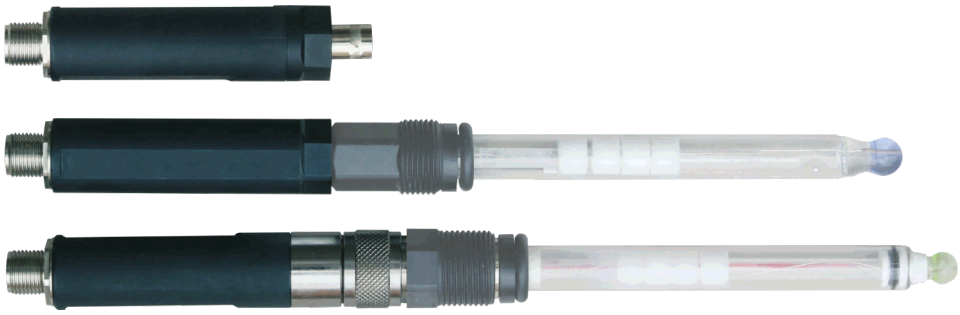
Product Views



Side | Front | Top / bottom | Back

Intelligent Sensor/Measuring Modules with Digital and Analog Interface

Measuring modules for the parameters pH-value, ORP(redox potential), temperature, conductivity and dissolved Oxygen with the optical ODOSsensor



Connection Opportunities

All sensors/measuring modules dispose of a digital as well as an analog 4□20mA interface and thus are best suitable for the own systems but also for the connection to foreign systems like diverse SPS controls, e.g. The connection to the systems aquastar mobile and aquastar V3 is done by the digital interface.

Range of Functions

The range of functions implemented in a digital sensor as well as the single stored data depend on the measured value and the type of sensor. The same is valid fort he constructive design. Please, consult the specification sheet of the particular sensor for details.

Composition

The intelligent electronics of the wear-free sensors for dissolved oxygen and conductivity can be found in the sensor housing. The sensors subject to wear like pH-and redox-electrodes (ORP)havethe electronics in a separate housing which is stuck on the sensores and screwed with them in a water-resistant manner. In case of wear of a sensor it can just be exchanged and the high-quality electronics can continue to be used. The direct connection of the measurement electronics with the sensor without additional cable guarantees a safe and stable operation. All sensor modules are certainly certified for industrial application.

Siemex

Siemex

Address 00, 0000 City
CVR00 00 00 00

Sales +45 00 00 00 00
Support +4500 00 00 00

mal@siemex.tech
Siemex.tech

All information in this datasheet is for guidance only and subject to change without notice. Siemex accepts no liability for errors or omissions.