

Model 346

aquamaster

AMEL
INSTRUMENTS



The model 346 Aquamaster has been specifically designed for the measure of the most important electrochemical parameters of water. It allows the continuous monitoring of wells, basins, and all the other check points relevant for the quality of water. The system allows long-distance data transmission so that the continuous monitoring can be operated from remote laboratories or control rooms even with long periods data collection.

The probe diameter is 48 mm, so it can be easily used in artesian wells while the included sensor are easily replaceable. The body is made of Stainless Steel, so the probe is suitable also for the use in sea water and wastewater. The probe can be immersed down to 200 m depth. The datalogger is included into a sealed housing (IP56 protection degree), together with the rechargeable battery. A GSM modem or a radio-transmitting device can be installed in the same housing. Should the power supply not be available at the point of installation, the instrument can be powered through a solar collector.

A specifically designed program allows to control many Aquamaster monitoring points through a PC.

Data are collected and stored on a continuous basis or at programmed intervals and are stored on disk so that they are available to be processed.

- Power supply 16-24V(AC-DC) and buffer battery
- Designed for the monitoring of wells, rivers, lakes etc.
- Data transmission through RS-485, modem and GSM



Model 346

Technical specifications

Parameter	Range	Resolution	Accuracy
<i>pH</i>	0-14 units	0,01 units	±0,2 units
<i>ORP</i>	-2V+2V	1mV	±10mV
<i>SENS-ION</i>	-2V+2V	1mV	±10mV
<i>D.O.</i>	0-20ppm 0-200%sat	0,01ppm 0,1%sat	±0,2ppm ±1%sat
<i>Conductivity (autoranging)</i>	0-200µS 0-2mS 0-20mS 0-200mS	0,1µS 1µS 10µS 100µS	±1µS ±10µS ±100µS ±1mS
<i>Salinity</i>	0-100ppt	0,1ppt	±0,2ppt
<i>Surface Temperature</i>	-10+50°C 0-200°F	0,1°C 0,1°F	±1°C ±2°F
<i>In depth Temperature</i>	-10+50°C 0-200°F	0,1°C 0,1°F	±1°C ±2°F
<i>Barometric pressure</i>	0-2000mbar 0-2000mm Hg	1mbar 1mm Hg	±10mbar ±10mm Hg
<i>Depth</i>	0-200m 0-1000feet	1cm 1inch	±5cm ±2inches
<i>Turbidity</i>	0-200NTU	1NTU	±5NTU
<i>Date</i>	dd.mm.yy	1gg	
<i>Time</i>	hh.mm.ss	1s	±30s/mo
<i>Battery voltage</i>	0-20V	0,1V	±100mV

ORDER INFORMATION

Mod.346 AQUAMASTER.

Control unit and immersion probe, complete with all the measuring sensors, cells and electrodes. When not otherwise specified the standard cable length is 10 m.

ACCESSORIES AND SPARE PARTS

- **Mod.201/SSG/6X** pH glass electrode
- **Mod.363/SSG/6X** Ag-AgCl reference electrode
- **Mod.805/SPG/6X** platinum electrode
- **Mod.192/1/6X** conductivity cell K=1
- **Mod.346/M** Spare cartridge for dissolved oxygen cell
- **Mod.346/S** Reference solution for dissolved oxygen cell
- **A500/10S** Spare battery
- **Mod.346/PO** Dissolved oxygen cell (lead electrode)
- **Mod.346/TU** Turbidity meter
- **Mod.346/MT** Optional stirring motor

Battery charger:

internal 16÷24Vac-dc 50-60Hz
15VA

Battery:

lead-acid gel type, sealed
rechargeable 2x6V 10Ah

Autonomy:

10 days at 25°C

Interface:

RS-232C / modem 19200 baud

Memory:

256kbytes RAM FLASH equivalent
to 9000 reading of all parameters

Data logger 346/SU:

programmable for a complete
reading of all parameters every 60
seconds until 24 hours (with one
second of increment)

Probe 346/P48:

datalogger connection by RS485
Modbus protocol

Applications:

natural water, fresh water, drinking
water, wastewater, seawater from
-10 to 50°C

Max Depth:

200m
Cable 500m

Surface Unit:

water resistant IP56
300x250x160mm, weight 3Kg ca

Probe:

AISI 316 SS dimensions: ø48mm,
length 600mm, weight 3Kg ca
(mod.346/P-48)

Software:

sensor calibration and data
collection for later downloading in
MSWindows

