

Water Analyser



www.Aqua-Tech.eu

Water Analyser

Overview

Analysing meters are mainly used for the measurement and surveillance of various water quality parameters, like temperature, oxygen, pH-value, redox-potential, conductivity, salinity etc., sometimes also for the analysis of total gas pressure or the water current velocity. There are either meters or sets which measure just one parameter (single-parameter) or also several parameters (multi-parameter) available. In general, it can be distinguished between two different analysing methods for the water quality: reagent sets and sensor probes, whereby the last method measures more precisely and is also more easily to use.

Reagent sets with liquid reagents or dry reagents analyse defined parameter optically with colour cards or a photometer. Analyse reagents can only be used one time and are also not suitable for a continuous monitoring of the water quality.

Sensor probes with mobile handheld meter or stationary fixed station measure several parameters electronically with the meter or device. Modern, digital handy meters do not only measure and store the values, but can also have automatic alarm- and switch functions etc.

In fish- or aquaculture, the dissolved oxygen content is usually the limiting factor in production. Therefore, it should be measured and controlled regularly by an oxygen meter. In ponds, the oxygen content is usually at the lowest level at sunrise. At dissolved oxygen contents below 6 mg/l resp. 70 % oxygen saturation, an aeration of the water in order to increase oxygen levels, is recommended.

We offer a complete product range of handheld (handy) meters for the water analysis (of conductivity and salinity, oxygen and temperature, as well as pH-value or redox-potential etc.), from the cheap single-parameter meter with one fixed sensor (conductivity-meter, temperature-meter, oxygen-meter, pH-meter) to professional multi-parameter meters with changeable sensors (combi-meter, multi-meter), in various outfits, without or with alarm- and logger-function as well as analogue output and real-time clock (optional). Available either just as meter with sensor-probe itself or as complete sets with transport case, loading device and liquid solutions (depending on sensor-probe). Technical changes reserved!

EN



CE

Quality for reasonable prices!

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A-6370 Kitzbühel/Austria, Unterbrunnweg 3, Tel: +43/664-1048297, www.aqua-tech.eu

Handy Meters

Selection

Series 1000



Series 3000



Series 5000



Conductivity

pH/Redox

Oxygen/Temperature

Multiparameter

Consulting:

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Handy Meters

Specifications

Series	1000				3000				5000			7000
Type	14xx	15xx	16xx	17xx	33xx	34xx	35xx	36xx	54xx	55xx	56xx	75xx
Analysis*	EC	PH	DO	TE	FL/HU	EC/TE	PH/RE	DO/TE	EC/TE	PH/RE	DO/TE	AL
Measured value	µS	pH	mg	°C/F	m/%	µS/°C	pH/mV	mg/°C	µS/°C	pH/mV	mg/°C	AL
Calculated value	PSU	-	%sat.	-	-	PSU	rH	%sat.	PSU	rH	%sat.	AL
Sensor connections	1	1	1	1	2	1	2	1	1	2	1	2
Sensor mounting	FIX	BNC	FIX	FIX	DIN	FIX	BNC	DIN	BAJ	BNC	BAJ	B+B
Display screen	3-lines				2x4-digits				2x4-digits			multi
Display backlight	yes				no				yes			yes
Salinity compensation	manually				manually				manually			manu
Pressure compensation	manually				manually/automatic				automatic			auto
Temperature compens.	automatic				automatic				automatic			auto
Stability recognition	yes				no				yes			yes
Hold function	yes				yes				yes			yes
Switch-off function	no				yes				yes			yes
Min/Max storage	yes				yes				yes			yes
Logger function	no				optional				optional			yes
Alarm function	no				optional				optional			yes
Analog output	no				optional				optional			yes
Calibration history	no				optional				optional			yes
Clock (D/M/Y)	no				optional				optional			no
Interface (PC)	no				serial				serial			USB
Loading socket	no				yes				no			USB
Batteries included	2xAA (Mignon)				1x6F22 (Block)				2xAAA (Micro)			3xAAA
Battery duration (h)	1000	3000	3000	5000	120	150	300	500	160	1000	1000	30*
Battery status	yes				no				yes			no
Placing/hanging bracket	no				yes				yes			yes
Push buttons	4				6				6			8
Water protection	IP65				IP54				IP67			IP67
Silicon frame	no				no				yes			yes
Device height (mm)	108				142				160			160
Device wide (mm)	54				71				86			86
Device depth (mm)	28				26				37			37
Device weight (g)*	180	130	150	130	160	230	170	300	250	250	250	300

*EC = EI. Conductivity, PH = PH-value, RE = Redox, DO = Dis. Oxygen, TE = Temperature, AL = All (except FL/HU), FL = Flow velocity, HU = Rel. Humidity, PSU = Salinity (+TDS).

*Weight incl. batteries (without sensor probes).

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Oxygen Meters

Specifications

Series	OxyScan	
Type	Out.	Lab.
Analysis*	DO/TE	DO/TE
Option*	-	PH/RE
Measured value	mg+°C	pH/mV
Calculated value	%sat.	%sat.
Sensor connections	1	2
Sensor connection	DIO	BNC
Display screen	multi	
Display backlight	yes	
Salinity compensation	manually	
Pressure compensation	automatic	
Temperature compens.	automatic	
Measure change	no	yes
Movement activation	yes	
Switch-off function	yes	
Data storage	yes	
Logger function	yes	
Alarm function	yes	
Funk switch possibility	yes	
Print function	yes	
Clock (D/M/Y)	yes	
Interface (PC)	USB	
Loading socket	USB	
Batteries included*	2xAA	
Battery duration (h)	40*	
Battery status	yes	
Signal sound	yes	
Push buttons	8	
Water protection	IP67	IP54
Transport case	included	
Device height (mm)	165	
Device wide (mm)	83	
Device depth (mm)	34	
Device weight (g)*	300	300

Long sensor stand time!
 Loading device included!
GPS as outfit option!
 Free firmware update!
 (all only for OxyScan series)



Oxygen/Temperature



Multiparameter

*DO = Dis. Oxygen, TE = Temperature, PH = PH-value, RE = Redox.

*Battery rechargeable (accumulator). *Weight incl. batteries (without sensor probes).


Best value for money!

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Handy Meters

Sensors

Series	1000-7000										OxyScan	
Number	C1	C2	C3	T1	F1	F2	P1	P2	P3	O1	O2	O3
Analysis*	EC	EC	EC	TE	HU	FL	PH	PH	RE	DO	DO	DO
Display value	mS/cm	mS/cm	mS/cm	°C/F	%rel.	m/s	pH	pH	mV	mg/l	mg/l	mg/l
Minimal value	0	0	0	-70,0	0,0	0,00	0,0	0,0	-2000	0,0	0,00	0,00
Maximal value	100	200	1000	+250,0	100,0	5,00	14,0	14,0	+2000	20,0	50,00	35,00
Precision (%) ^x	0,5	0,4	0,3	0,2	2,5	3,0	0,2	0,2	1,0	1,5	1,0	1,0
Reaction time (s)	1	1	1	2	2	2	5	5	5	10	60	120
Temperature measure	yes	yes	yes	yes	yes	no	no	no	no	yes	yes	yes
Working temp. (°C)	0-50	0-100	0-80	0-50	0-60	0-40	0-40	0-40	0-40	0-40	0-50	0-70
Calibration points	0	1	1	0	0	0	1-3	1-3	1	1	1	1
Stand time (months)	12	18	24	120	12	24	10	8	12	1	36	36
Sensor material	Graph	Epoxy	PVC	Inox	Poly	Past	Epoxy	Tyrel	Tyrel	PVC	Past	Inox
Sensor diameter (mm)	12	12	16	3	14	15	12	12	12	12	15	5
Sensor length (mm)	140	120	145	100	120	150	130	120	120	120	140	200
Cable length (m)	1	1	1	1	1	1	1	1	1	2 (4)	2 (5)	1 (3)
Connection plug	BAJ	BAJ	BAJ	BAN	DIN	DIN	BNC	BNC	BNC	DIN	DIO	DIO
Meter type	14+34	34+54	54+75	17-55	33	33	15-75	15-55	34-75	16-75	Out.	Lab.
Options	Non	Non	Non	Tip	Filter	Non	Temp	Press	Press	Cape	Cable	Tip
Picture												
* Abbreviations:	EC = Conductivity TE = Temperature HU = Humidity FL = Flow PH = PH-value RE = Redox DO = Oxygen											

^xPrecision in percent of measured value at a reference temperature of 25 °C.

Technical changes reserved!

Consulting:

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Handy Meters

Accessories



Calibration solutions – Electrolyte solutions – Control solutions



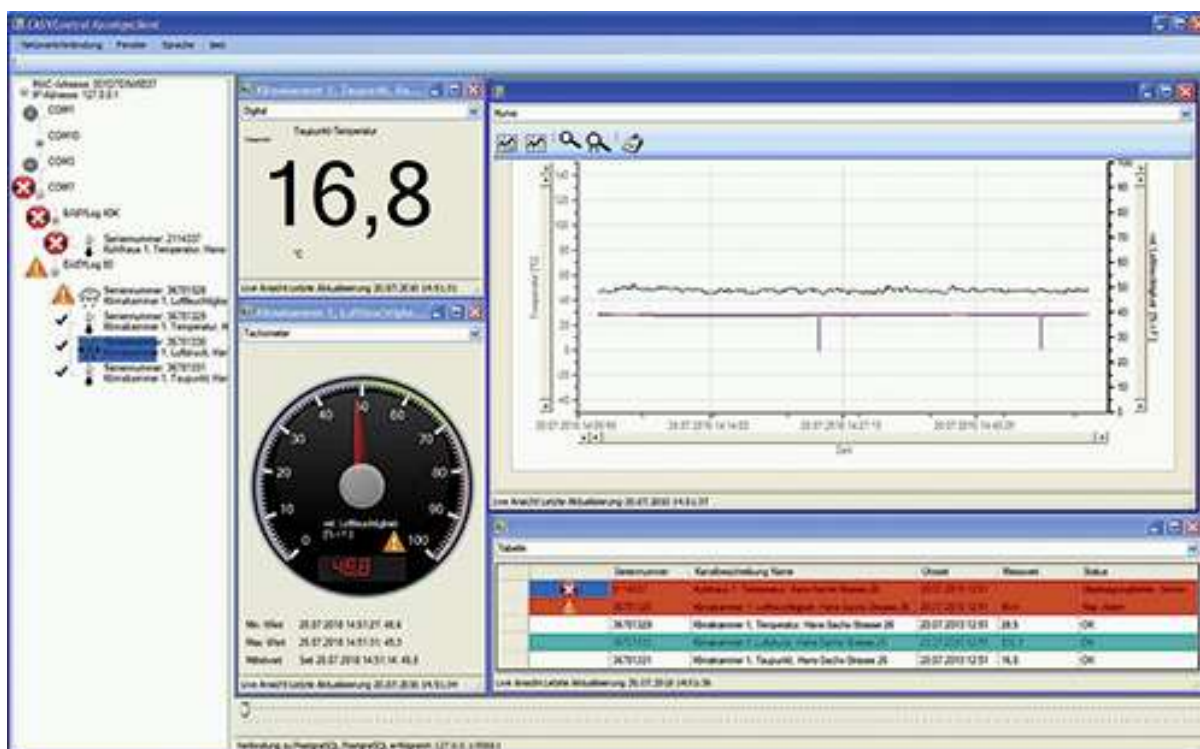
Interface converter



Transport case



Loading device



Software

If questions, please contact:

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