

PRIMELAB 1.0

MULTITEST

PHOTOMETER

Accurate and reliable water testing

1 JENCOLOR Sensor - ALL Parameters

(visible wavelength range)

Fast Bluetooth® - Connection

Powerful Software

آلمان



NEW
1 hour
Legionella
testing!



Sensor/Optics by
JENCOLOR



WATER TESTING
MADE IN GERMANY

by
WATER-I.D.®
POOL-I.D.®

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ID	Parameter/Methode	Test-Range	Resolution	Reagent
Active Oxygen (MPS)				
1	Active Oxyg. (MPS)	0 - 40 mg/l	0.1	Tablet
Alkalinity				
5	Alkalinity-M	5 - 200 mg/l	1	Tablet
121	Alkalinity-M (HR)	0 - 500 mg/l	1	Tablet
6	Alkalinity P	5 - 300 mg/l	1	Tablet
Aluminium				
4	Aluminium	0 - 0.3 mg/l	0.01	Tablet
Ammonia				
2	Ammonia (LR)	0 - 1 mg/l	0.01	Tablet
Boron				
7	Boron	0 - 2 mg/l	0.1	Tablet
Bromine				
8	Bromine	0 - 18 mg/l	0.01	Tablet
63	Bromine	0 - 18 mg/l	0.01	Powd./Liq.
128	Bromine	0 - 4.5 mg/l	0.01	Powder
Carbohydrazide				
71	Carbohydrazide	0 - 1.3 mg/l	0.01	Liquid
Chloramines (Mono-/Di-)				
95	Chloramines	0 - 8 mg/l	0.01	Tablet
Chloride				
10	Chloride	0.5 - 25 mg/l	0.1	Tablet
124	Chloride	0 - 100 mg/l	0.1	Liquid
Chlorine				
129	Chlorine libre	0 - 2 mg/l	0.01	Powder
11	Chlorine	0 - 8 mg/l	0.01	Tablet
12	Chlorine	0 - 8 mg/l	0.01	Liquid
122	Chlorine (MR)	0 - 10 mg/l	0.01	Tablet
15	Chlorine (HR) (KI)	0 - 200 mg/l	1	Liquid
14	Chlorine (HR) (KI)	5 - 200 mg/l	1	Tablet
Chlorine Dioxide				
16	Chlorine Dioxide	0 - 15 mg/l	0.01	Tablet
64	Chlorine Dioxide	0 - 15 mg/l	0.01	Liquid
130	Chlorine Dioxide	0 - 5 mg/l	0.01	Powd./Liq.
108	Total Oxidant	0 - 8 mg/l	0.01	Liquid
Chlorite				
106	Chlorite	0 - 8 mg/l	0.01	Liquid
Chromium (hexavalent)				
94	Chromium (hexaval.)	0 - 2.2 mg/l	0.01	Liquid
103	Chromium (hexaval.)	0 - 1 mg/l	0.01	Powd./Liq.
COD				
79	COD (LR)	0 - 150 mg/l	1	Prepared
80	COD (MR)	0 - 1500 mg/l	1	Prepared
17	COD (HR)	0 - 15000 mg/l	1	Prepared
Colour				
107	Colour	15 - 500 mg/l	1	-
Copper				
18	Copper	0 - 5 mg/l	0.01	Tablet
19	Copper	0 - 5 mg/l	0.01	Powder
Cyanuric Acid				
20	Cyanuric Acid	2 - 160 mg/l	1	Tablet
DBNPA				
65	DBNPA	0 - 13 mg/l	0.01	Liquid
82	DBNPA	0 - 13 mg/l	0.01	Tablet
DEHA				
21	DEHA	20 - 1000 µg/l	10	Liquid
Erythorbic Acid				
70	Erythorbic Acid	0 - 3.5 mg/l	0.01	Liquid
Fluorescein				
113	Fluorescein	0 - 500 µg/l	1	-
Fluoride				
72	Fluoride	0 - 2 mg/l	0.01	Liquid
Hardness - Calcium				
78	Calcium Hardn.	0 - 500 mg/l	1	Tablet
9	Calcium Hardn. (HR)	50 - 1000 mg/l	1	Tablet

ID	Parameter/Methode	Test-Range	Resolution	Reagent
Hardness - Total				
56	Total Hardn. (LR)	2 - 50 mg/l	1	Tablet
57	Total Hardn. (HR)	20 - 500 mg/l	1	Tablet
148	Total Hardn. (HR)	0 - 200 mg/l	1	Liquid
Hydrazine				
23	Hydrazine	5 - 600 µg/l	1	Liquid
Hydrogen Peroxide				
24	Hyd. Peroxide (LR)	0 - 3.8 mg/l	0.01	Tablet
66	Hyd. Peroxide (LR)	0 - 3.8 mg/l	0.01	Liquid
25	Hyd. Peroxide (HR)	0 - 200 mg/l	1	Liquid
109	DEWAN-50	0 - 300 mg/l	1	Liquid
Hydroquinone				
26	Hydroquinone	0 - 2.5 mg/l	0.01	Liquid
Iodine				
27	Iodine	0 - 28 mg/l	0.01	Tablet
67	Iodine	0 - 28 mg/l	0.01	Liquid
Iron				
28	Iron (LR)	0 - 1 mg/l	0.01	Tablet
29	Iron (MR)	0 - 10 mg/l	0.01	Powder
127	Iron (MR) ferrous	0 - 10 mg/l	0.01	Powder
30	Iron (HR)	0 - 30 mg/l	0.01	Liquid
132	Iron total	0 - 3 mg/l	0.01	Powder
Isothiazolinone				
88	Isothiazolinone	0 - 10 mg/l	0.1	Liquid
Legionella				
147	Legionella	60 - 1000000 cfu	1	Liquid
Magnesium				
93	Magnesium	0 - 100 mg/l	1	Tablet
Magnanese				
31	Manganese (LR)	0.2 - 5 mg/l	0.1	Tablet
Methylethylketoxime				
69	Methylethylketoxime	0 - 4.1 mg/l	0.01	Liquid
Molybdate				
96	Molybdate (LR)	0 - 15 mg/l	0.01	Tablet
134	Molybdate (HR)	0 - 40 mg/l	0.1	Powder
32	Molybdate (HR)	1 - 100 mg/l	0.1	Tablet
33	Molybdate (HR)	5 - 200 mg/l	0.1	Liquid
Nickel				
90	Nickel (HR)	0 - 7 mg/l	0.1	Tablet
100	Nickel (HR)	0 - 10 mg/l	0.1	Liquid
Nitrate				
34	Nitrate	0 - 11 mg/l	0.1	Powd./Liq.
Nitrite				
35	Nitrite (LR)	0 - 0.5 mg/l	0.01	Tablet
36	Nitrite (HR)	5 - 200 mg/l	0.1	Powder
97	Nitrite (HR)	0 - 1500 mg/l	1	Tablet
101	Nitrite (HR)	0 - 3000 mg/l	1	Liquid
Ozone				
37	Ozone	0 - 5.4 mg/l	0.01	Tablet
92	Ozone	0 - 5.4 mg/l	0.1	Liquid
Phenol				
98	Phenol	0 - 5 mg/l	0.01	Tablet
PHMB				
43	PHMB	2 - 60 mg/l	1	Tablet
Phosphate				
44	Phosphate (LR)	0 - 4 mg/l	0.01	Tablet
45	Phosphate (LR)	0 - 4 mg/l	0.01	Powd./Liq.
46	Phosphate (HR)	0 - 80 mg/l	0.1	Tablet
47	Phosphate (HR)	0 - 100 mg/l	0.1	Liquid
Phosphonate				
87	Phosphonate	0 - 20 mg/l	0.01	Liquid
110	Phosphonate	0 - 20 mg/l	0.01	Tablet
pH - Value				
40	pH-value (LR)	5.2 - 6.8	0.01	Tablet
38	pH-value (MR)	6.4 - 8.4	0.01	Tablet

Parameters list

As per 07/2015

Since via the "PrimeLab Desktop Assistant" it is simple to upload additional parameters by entering a code within minutes and also long after purchase of the device. The software will actively alert you when updates are available!

ID	Parameter/Methode	Test-Range	Resolution	Reagent
pH - Value				
39	pH-value (MR)	6.4 - 8.4	0.01	Liquid
pH - Universal				
41	pH-Universal	5 - 11	0.1	Tablet
42	pH-Universal	4 - 11	0.1	Liquid
Polyacrylate				
85	Polyacrylate	1 - 30 mg/l	0.1	Liquid
Polyamine				
125	Acsamine 28F	0 - 100 mg/l	1	Liquid
145	Acsamine CC	0 - 100 mg/l	1	Liquid
146	Acsamine CCA	0 - 100 mg/l	1	Liquid
126	Acsamine DW	0 - 100 mg/l	1	Liquid
141	Acsamine DWBR1	0 - 100 mg/l	1	Liquid
142	Acsamine DWC	0 - 100 mg/l	1	Liquid
143	Acsamine SW	0 - 100 mg/l	1	Liquid
144	Acsamine SWC	0 - 100 mg/l	1	Liquid
Potassium				
48	Potassium	0.7 - 12 mg/l	0.1	Tablet
PTSA				
111	PTSA	0 - 1000 µg/l	1	-
QAC				
83	QAC	25 - 150 mg/l	1	Tablet
Silicia				
49	Silica (LR)	0 - 5 mg/l	0.01	Pow./Liq.
50	Silica (HR)	0 - 100 mg/l	1	Powder
Sodium Hypochlorite				
51	Sodium Hypochlorite	0.2 - 40 %	0.1	Tablet
68	Sodium Hypochlorite	0.2 - 40 %	0.1	Liquid
Sulphate				
54	Sulphate	5 - 100 mg/l	1	Tablet
55	Sulphate	5 - 100 mg/l	1	Powder
Sulphide				
52	Sulphide	0.04 - 0.5 mg/l	0.01	Tablet
140	Sulphide	0 - 0.7 mg/l	0.01	Liquid
Sulphite				
53	Sulphite (LR)	0 - 5 mg/l	0.1	Tablet
105	Sulphite (HR)	0 - 300 mg/l	0.1	Tablet
Suspended solids				
81	Suspended solids	0 - 750 mg/l	1	-
Tannic acid				
91	Tannic acid	0 - 150 mg/l	0.1	Liquid
Transmission				
114	Transmission-420 nm	0 - 100 %	0.1	-
115	Transmission-470 nm	0 - 100 %	0.1	-
116	Transmission-520 nm	0 - 100 %	0.1	-
117	Transmission-570 nm	0 - 100 %	0.1	-
118	Transmission-620 nm	0 - 100 %	0.1	-
119	Transmission-670 nm	0 - 100 %	0.1	-
Turbidity				
59	Turbidity	20 - 1000 FAU	1	-
112	Turbidity	0 - 1100 NTU	0.01	-
Urea				
120	Urea	0.1 - 2.5 mg/l	0.1	Tabl./Liq.
Zinc				
62	Zinc	0 - 1 mg/l	0.01	Tablet

Adapter kits for Turbidity (0-1100 NTU) / PTSA and Fluorescein



PrimeLab-Adapter for either
Turbidity (NTU)
PTSA
Fluorescein

PrimeLab-Turbidity-Adapter kit

Some test procedures, such as Turbidity (NTU), PTSA and Fluorescein, require scattered rather than direct light (LED -> sensor). To achieve this and to still use all functionality of your PrimeLab, e.g. *Bluetooth*[®] connectivity, use of software, app and cloud services etc., an adapter is used which shines your water sample from above, enabling the PrimeLab to measure using scattered light (90° angle between adapter and sensor).

The adapter comes in a black carrying case with professional lab-pipette, all necessary calibration-solutions, batteries and a glass vial. Adapter and PrimeLab communicate by light. You do not even need to switch on the adapter. It will be auto-detected.

PrimeLab Turbidity-Adapter

If turbidity should be measured in low ranges (below 20 NTU) the nephelometric method in which the LED does not shine directly through the water sample to the sensor (as in FAU), but at a 90° angle, is used.

This process can be recognized by the suffix "NTU" / "FTU" or "FNU" as the measured value. More information on the nephelometric principle can be found in DIN EN ISO 7027.

The PrimeLab-Turbidity-Adapter is based on secondary standards, verified against formazine (international turbidity standard) standards and uses a white-light source.

PrimeLab PTSA-Adapter

PTSA (1,3,6,8-pyrenetetrasulfonic acid tetrasodium salt) is a stable fluorescent tracer dye that emits wavelengths between 400 and 500 nm when irradiated with UV light. It provides an excellent choice for the active on-line monitoring of cooling water treatment when a fixed known amount is added to the inhibitor being dosed. Once added to the water circulation system it is stable over time, does not react easily with other substances and is environmentally safe. The PrimeLab-PTSA-Adapter uses a UV-light source.

PrimeLab Fluorescein-Adapter

Fluorescein is a stable fluorescent tracer dye that emits green light with wavelengths between 520 and 530 nm upon excitation with blue light with a maximum absorption at 495 nm. It provides an accurate, cost effective method for monitoring industrial boiler applications when a fixed known amount is added to dosage program. Once added to the water circulation system it is stable over time and is environmentally safe when dosed at the concentrations required for boiler water analysis.

Basic equipment

- PrimeLab Multitest with integrated *Bluetooth*[®]-module
- Black plastic case
- DC adapter (220/110 V) with interchangeable international plugs
- 4 × AAA 1.5 V batteries
- *Bluetooth*[®]-USB dongle for wireless connection to your PC
- CD-ROM "PrimeLab Desktop Assistant"
- 2 × 24 mm standard round cuvette (glass / 10 ml) with light absorber integrated into lid
- Light protection lid for 16 mm standard cuvettes
- 10 ml syringe
- Cleaning brush for cuvettes
- Stirring rod

Optional

- Adapter for COD 16 mm "Prepared" cuvettes
- 100 ml plastic measuring tube
- Filter unit for filtering water samples

Installed parameters/ measurement methods

The parameters / measurement methods installed on the PrimeLab may be individually defined by the user and extended at any time after purchase by entering activation codes into the software. Thus also subsequently developed measurement methods can still be installed.

The PrimeLab will never become obsolete.

Technical details / features

Dimensions:	175 mm × 88 mm × 59 mm
Weight:	160 g
Spectral range:	380 nm – 780 nm with 7 open channels and ±40 nm overlap each
Data Transmission:	Built-in <i>Bluetooth</i> [®] -module
Calibration:	Auto-calibration by JENCOLOR sensor; determination of LED brightness
One Time Zero:	Intelligent OTZ (One Time Zero) function, detecting different ZERO types
Internal memory:	100 data records / 20 accounts records
Clock / Date:	RTC (real-time clock) with date function
Auto-Off:	Default = 10 minutes. Individually adjustable
Menu navigation:	Intuitive, display-controlled 4-button menu system; test instructions during the measurement process (can be skipped)
Power supply:	optionally 4 × 1.5 V AAA batteries or 100–240 V AC, 50/60 Hz, 0.2 A → 5.0 V, 1200mA, 6 W
Display:	Graphical LCD display, monochrome
Operating languages:	German, English, Spanish, French
Environment:	5 °C – 45 °C (41 °F – 113 °F) / 30 % – 90 % rel. humidity
Water resistancy:	The unit is splash-proof
Reagents:	The calibration curves of the individual parameters are matched to the reagents offered by the manufacturer. The use of reagents by other manufacturers may result in measurement errors! The scope of delivery of the PrimeLab includes solely high-quality reagents "Made in Germany" and "Made in Britain"!

PRIMELAB 1.0



The "PrimeLab 1.0 Multitest" is a high-tech photometer of the latest generation.

Small and handy, but incredibly powerful thanks to the multi-spectral JENCOLOR sensor.

Quick and easy wireless connection via *Bluetooth*[®] to a PC and the "PrimeLab Desktop Assistant" software.

**Use the Software
„PrimeLab Desktop Assistant“ for:**

Uploading further measurement methods on the PrimeLab
Convenient management of test results with reporting function

Create proposals for water treatment on the basis of measurement results by entering your water treatment chemicals as well as ideal ranges (min/max) per parameter.

Update the PrimeLab firm- and software

Remote control your PrimeLab



PrimeLab.exe

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شركة سرمدطب

