

PRIMELAB^{1.0}

MULTITEST

PHOTOMETER

Accurate and reliable water testing

1 JENCOLOR Sensor - ALL Parameters

(visible wavelength range)

Fast *Bluetooth*[®] - Connection

Powerful Software

NEW
1 hour
Legionella
testing!



Desktop
Assistant
Software



APP



CLOUD

YouTube

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Sensor/Optics by

JENCOLOR



WATER TESTING
MADE IN GERMANY

by
WATER-I.D.[®]
POOL-I.D.[®]

PRIMELAB_{1.0}

MULTITEST

Photometer meets Future

Photometers for electronic and highly accurate determination of water values are standard equipment in every laboratory.

Similarly, mobile phones are standard equipment in our daily lives, and yet over the past few decades they have continuously adapted to technical progress.

Do you still make calls today with a mobile phone of past generations from 10 or 20 years ago or do you prefer the benefits of smartphones with fast *Bluetooth*[®] - wireless technology -, synchronisation with your PC software, apps and many other technical advantages?

How about your photometer ...?

Has it kept pace with technological progress, or do you still transmit your data via a serial port, an IR interface or even not at all!?

Is your data analysis restricted to predefined parameters? Did you have a choice of which parameters you want to measure?

Is the performance of your photometer limited to a few or even only one wavelength?



PrimeLab.exe

Time for a change

Introducing the next generation of photometers!

Data connection via *Bluetooth*[®] - wireless technology - within seconds, similar to your smartphone in your car.

A sensor by JENCOLOR with unprecedented accuracy, able to measure all parameters where colour development is visible to the human eye after adding a reagent (visible wavelength).

Software that will offer you not only user based management of your measurement sources (e.g. pools) and related measurement data but also offer advice on adjusting the water values back to ranges defined by you.

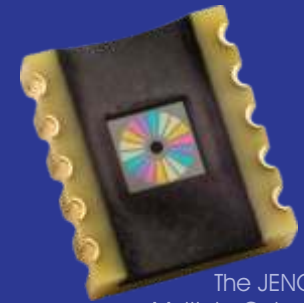
Software allowing you to easily upload additional parameters on your Photometer.

A device that auto-calibrates itself within milliseconds at the push of a button without having to return it to the manufacturer!





The Sensor



The JENCOLOR
Multiple-Color-Sensor
(scale ~ 1:20)

The difference

When a coloured reagent is added to a water sample using a conventional photometer, light is passed through the sample, with an LED at a specific wavelength, to a sensor placed on the other side of the sample which detects how much light has passed through the water sample (transmission). From this single value on one wavelength then the water value, such as "pH 7.25", is determined, using a table previously defined in the unit.







Currently measurement of a comprehensive range of parameters on one device has required either installation of several light sources and sensors (set to specific wavelengths) or use of colour interference filters, to generate different wavelengths. Only one specific wavelength is measured using this technique only allowing limited parameters.

The JENCOLOR MultiColor sensor has the required filters already installed on the sensor itself, and measures across several channels. This enables the PrimeLab to measure all parameters that, after addition of a reagent, show a visible colour – with unprecedented precision, because the measurement is performed not "around" but precisely at the wavelength range of the sample measuring the colour in seven different scales simultaneously.

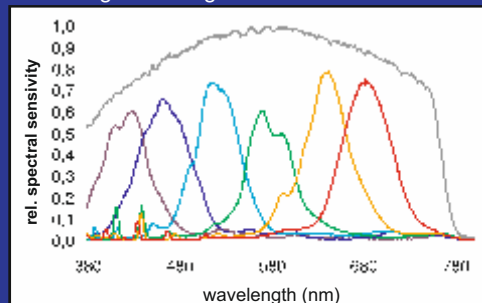
Tests have shown that the JENCOLOR sensor, once calibrated, achieves 98 % of the accuracy of a spectrometer! And all this with only 1 light source and only 1 sensor!

The PrimeLab is even future proof as you are able to add Parameters that are not installed on the device at purchase and can be conveniently installed by using "PrimeLab Desktop Assistant" software.

Colours and their wavelengths

| colour | | wavelength (nm) |
|--------|--|-----------------|
| purple |  | 380 - 420 nm |
| blue |  | 420 - 490 nm |
| green |  | 490 - 575 nm |
| yellow |  | 575 - 585 nm |
| orange |  | 585 - 650 nm |
| red |  | 650 - 750 nm |

Wavelength coverage of the JENCOLOR sensor



1 Light-Source 1 Sensor ALL Parameters

Sometimes little miracles happen when two completely different industries happen to meet and previously unforeseen synergies arise.

This is happened when we started the development of the "PrimeLab" in late 2010 with our development partner.

JENCOLOR

JENCOLOR is the brand of a subsidiary of a globally renowned optics and sensor manufacturer, with its headquarters in Jena in Thuringia, Germany. The "JENCOLOR Multiple Color" sensors are currently used in medical equipment, pre-press and even in passenger aeroplanes for LED light control in the cabin.

Technology / Colour

The Human Eye sees colour when light falls on to the subject and light waves return to the human eye.

Depending on the shape of this wave – this is called "wavelength" – we see different colours, such as red, green, etc.

The wavelengths visible to the human eye range from 380 to 780 nm.

All colours recognizable by the eye are in this range (see graph).

Account- and Test-Result-Management

- Define any number of "accounts" (addresses, measuring sources with volume specifications...). Each measurement performed with the PrimeLab is assigned to such an "account".
- Transfer of 20 "Accounts" to the PrimeLab per mouse click.
- Synchronization of measurement data between the PrimeLab and the "PrimeLab Desktop Assistant"
- Convenient reporting function for printing results; account-related, selected by date and / or parameter.

Dose recommendation

- You can input the water treatment chemicals that you use and ideal ranges for each parameter you can get dosage recommendations calculated, view them and print them.
- Store your individually used water treatment chemicals (e.g. "pH Minus").
- Store ideal ranges for each measurement parameter (e.g. "pH 7.2 – 7.4").

Parameter-Management / Remote Control

- Subsequent uploading of additional parameters on the PrimeLab by entering a code into the software.
- Remote control of the PrimeLab.
- Overview of all methods of measurement with display of measurement ranges and stored ideal ranges.
- Definition of customized ideal ranges per parameter.

Setup / Glossary / Support

- Update of the PrimeLab firmware and the "PrimeLab Desktop Assistant" software by mouse click.
- Personalisation of the PrimeLab / individual naming of your machine.
- Setting date and time / Internet access / reset to factory default values.
- Networking with other users via the forum on www.PrimeLab.org.
- Extensive information on water per parameter in the section "Glossary".
- Connection of multiple PrimeLabs to the software.

„PrimeLab Desktop Assistant“

PrimeLab Desktop Assistant
One of the innovations of the "PrimeLab 1.0" is the lightning-fast wireless technology of the photometer to a Windows PC via *Bluetooth®*.

The "PrimeLab 1.0" connects instantly and automatically after each power-up, just as you know it e.g. from your smartphone when entering your car.

Each "PrimeLab 1.0" with integrated *Bluetooth®*-module is supplied with a *Bluetooth®*-USB dongle with which you can add wireless connection capability to your computer, if this is not already enabled.

The Windows software "PrimeLab Desktop Assistant" is a strikingly powerful tool that allows you:

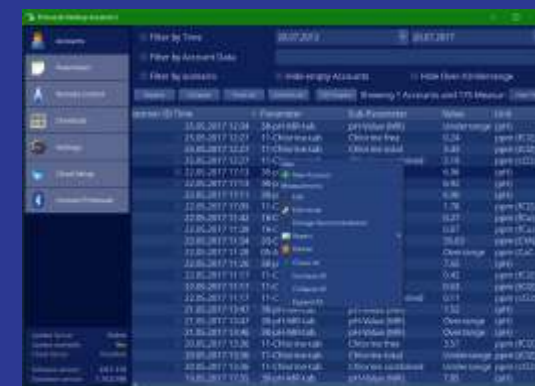
Activating further measurement methods on the PrimeLab

Convenient management and reporting of test results

Dosage recommendations, based on our individual water treatment chemicals

Updating the PrimeLab firm and software
Remote control your PrimeLab.

The Software



The PrimeLab app, for Android, lets you easily connect via *Bluetooth®* with your PrimeLab device for complete remote control operation and even cloud services. Using PrimeLab Desktop Assistant software in combination with the PrimeLab App and our free cloud solution gives you instant access to all your test data no matter where you are. Like the PrimeLab Desktop Assistant, the App allows you to connect, remote control and update your PrimeLab device. Activating additional parameters on your PrimeLab via the app is possible as well.

The App



CLOUD

Easily connect your PrimeLab and automatically upload test results to powerful STAadmin.co.uk platform for professional water management.



Parameters list

As per 02/2018

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 |
|--------------------------------|--------------------|---------------|------------|------------|
| 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 |
| 155 | Ammonia (HR) | 1 - 50 mg/l | 0.1 | prep. vial |
| 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 |

| ID | Parameter/Methode | Test-Range | Resolution | Reagent |
|------------------------------|---------------------|------------------|------------|------------|
| 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 |
| Cyanide | | | | |
| 158 | Cyanide | 0.01 - 0.50 mg/l | 0.01 | Powd./Liq. |
| 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 |
| Dissolved Oxygen | | | | |
| 163 | Dissolved Oxygen | 0 - 10 mg/l | 0.1 | 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 |
| 166 | Calcium Hardn. | 0 - 500 mg/l | 1 | Liquid |

Parameters list

As per 02/2018

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| 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 - 500 mg/l | 1 | Liquid |
| Hydrazine | | | | |
| 23 | Hydrazine | 5 - 600 µg/l | 1 | Liquid |
| Hydrocarbons | | | | |
| 160 | Hydrocarbons | 0 - 1 NTU | - | - |
| 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 |
| 162 | Hydr.Peroxide (HR) | 0 - 200 mg/l | 1 | Tablet |
| 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 |
| 149 | Iron in oil | 50 - 500 mg/l | 1 | Liquid |
| 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 |
| 161 | Manganese (VLR) | 0 - 0.030 mg/l | 0.001 | Tablet |
| Methylethylketoxime | | | | |
| 69 | Methylethylketoxime | 0 - 4.1 mg/l | 0.01 | Liquid |

| ID | Parameter/Methode | Test-Range | Resolution | Reagent |
|-----------------------|---------------------|-------------------|------------|------------|
| 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 |
| Nitrogen | | | | |
| 151 | Nitrogen-Total (LR) | 0.5 - 25 mg/l | 0.1 | prep. vial |
| 152 | Nitrogen-Total (HR) | 5 - 150 mg/l | 1 | prep. vial |
| Ozone | | | | |
| 37 | Ozone | 0 - 5.4 mg/l | 0.01 | Tablet |
| 92 | Ozone | 0 - 5.4 mg/l | 0.1 | Liquid |
| Peracidic Acid | | | | |
| 164 | Peracidic Acid LR | 0.00 - 10.00 mg/l | 0.01 | Tablet |
| 165 | Peracidic Acid HR | 0 - 300 mg/l | 1 | Tablet |
| Permanganate | | | | |
| 159 | Permang. Time Test | 0 - 100 %T | 0.1 | Tablet |
| 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. |

Parameters list

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| ID | Parameter/Methode | Test-Range | Resolution | Reagent |
|-----------------------|----------------------|---------------|------------|------------|
| Phosphate | | | | |
| 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 |
| Phosphorus | | | | |
| 153 | Phosphorus-Total(LR) | 0-2.6 mg/l | 0.01 | prep. vial |
| 154 | Phosphorus-Total(HR) | 0 - 52 mg/l | 0.1 | prep. vial |
| pH - Value | | | | |
| 40 | pH-value (LR) | 5.2 - 6.8 | 0.01 | Tablet |
| 38 | pH-value (MR) | 6.4 - 8.4 | 0.01 | Tablet |
| 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 | - |
| 157 | TraceR | 0 - 1000 µg/l | 1 | - |
| 156 | Watch Products | 0 - 1000 µg/l | 1 | - |

| ID | Parameter/Methode | Test-Range | Resolution | Reagent |
|----------------------------|---------------------|-----------------|------------|------------|
| 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 - 10 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. |
| 150 | Urea (HR) | 0.2 - 5.0 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

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-Adapter for either
Turbidity (NTU)
PTSA
Fluorescein

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.



PrimeLab-Turbidity-Adapter kit

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



WATER-I.D.[®]
POOL-I.D.[®]

WATER TESTING
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