Lovibond® Water Testing

Tintometer® Group

Bulletin No. 12/02

The ALL-IN-ONE-Solution for electrochemical and physical parameters

SD 150

The SD 150 is a multi-parameter, hand-held meter which combines the ability to measure pH-value, redox (ORP), conductivity, TDS, dissolved oxygen and temperature all in one instrument.

So now you only need this one meter instead of several, individual, products.

In today's water analysis, users are obliged to determine the above mentioned parameters at regular intervals. We designed the SD 150 especially for this purpose.

One instrument + all available electrodes (probes) = maximum flexibility in measurement

There are also some optional configuratins available, e.g. the combination of pH/Conductivity/TDS or pH/dissolved oxygen. Of course, we also offer all probes separately as an accessory to give the ability to upgrade your instrument as and when required.

What are these parameters?

- pH value = The range covers 0 – 14 pH. The pH value is the measurement of how acidic or alkaline the water is. Neutral water has a pH value of 7. Values lower than that mean the water is increasingly acidic; above that value, it is alkaline.
- Conductivity (µS, mS) = The measurement of the water's ability to conduct an electric current. It is measured in micro-Siemens or milli-Siemens.
- Total Dissolved Solids (TDS) (ppm) = TDS is the measurement of soluble material within the sample. The results are usually expressed in parts per milliliter (ppm).
- Redox potential ORP (mV) = Redox is a term for an electronic measurement to assess the state of balance between the oxidized and reduced states of a substance. It is measured in milliVolts (mV).
- Dissolved oxygen (O^2 mg/l and %) = For many organisms, a sufficient supply of oxygen is indispensable for life. Therefore, this parameter is probably the most critical quality variable in the water. Oxygen levels depend on water temperatures, the water salinity, the amount of aquatic vegetation etc. It is measured in milligrams / litre or percentage.
- Temperature (°C / °F) = Temperature affects all chemical and biological processes. Temperature, therefore, has a direct effect on important factors such as growth and oxygen demand. In addition, the temperature also influences the measurement of pH, ORP and TDS. It is measured in degrees Centigrade or Fahrenheit.

Highlights

- Intuitive user interface
- Data Logger (software for online measurement)
- Large digital display
- Protective casing
- RS 232 + USB for PC connection
- Internal storage

Ranges:

- pH value: 0 to 14 pH
- Redox/ ORP: -1999 mV to 1999 mV
- Conductivity:
  0 – 200,0 µS (0,1 µS)
  0,2 – 2,000 mS (0,001 mS)
  2 – 20 mS (0,01 mS)
  20 – 200,00 mS (0,1 mS)
- Dissolved oxygen:
  0 bis 20,0 mg/l in water ;
  0 bis 100 % in air
- Temperature: 0° – 60 °C / 32° – 140°F

Delivery content

All instruments come as standard with batteries, instruction manual and accessories. The included probes vary depending on which configuration is selected. We offer the following combinations:

- pH / Conductivity / Dissolved oxygen / Temperature
- pH / Conductivity / Temperature
- pH / Dissolved oxygen / Temperature
- pH / Redox (ORP) / Temperature

For more information or Technical Data, please do not hesitate to contact us. We would be happy to send you further details.

Applications

- Drinking Water
- Cooling/ Boiler Water
- Waste Water
- Pool Water
- Surface Water
- Process Water
- Laboratory Use
- Natural Ponds
- River Water

www.lovibond.com