



Lovibond

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Product portfolio 2020

Company profile - LOVIBOND



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- 130 years of experience in water analytics and colour measurement
- Customers in more than 140 countries
- Family-owned business
- 13 offices in 4 continents
- Mid-sized company
- Over 300 employees



Authorized dealer in Angola



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- **Ecoindustry** is proud to present in Angola the prestigious German brand **LOVIBOND**.
- Professionals in more than 160 countries have chosen **LOVIBOND** for 130 years and believe in the quality of its products.
- It has solutions for industrial water, drinking water, domestic and industrial effluents, environment and swimming pools; certified by DIN-ISO since 1997.
- From the wide range of products, we highlight the 100% compatible reagents with HACH brand equipment, with full guarantee of German excellence.

Industry compass



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Overview

Methods and devices



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Quick test

- MINIKIT
- Drop test
- Checkit Comparator
- Comparator 2000

MINIKIT

Quick test



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- Available for 12 analytes
- Complete set per analyte
- Tablet-count, titrimetric or speed test
- ✓ Unrestricted shipment
- ✓ Guaranteed shelf-life of 5 years
- ✓ Easy operation

Drop tests

Quick tests



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- Broad range for industrial applications
- High quality field test equipment
- Including accessories
- ✓ Fast and reliable
- ✓ Customizable
- ✓ Complete solution per application



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CheckIt Comparator

Quick tests



- Visual testing
- Supplied in a case
- Kit includes colour discs and 30 tests
- ✓ Cheapest colorimetric measurement
- ✓ Good resolution and precision
- ✓ More than 45 methods available

Comparator 2000+

Quick tests



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- High precision visual testing
- Glass-standard discs
- Various accessories available
- ✓ More than 130 methods
- ✓ In accordance with lots of standard methods
- ✓ Independent from mains



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Pooltester

- 3-Chamber-Tester
- Pooltester Kits
- Electronic pooltester

3-Chamber-Tester

Pooltester



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- Testers for Cl_2 , Br_2 , pH, O_2 and biguanides available
- Tablets for 20 tests incl.
- Compact mid-price design
- ✓ Available in bubble pack or high-quality mini case
- ✓ Improved readability through water-filled scale

Pooltester Kits

Pooltester



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- Broad portfolio range available
- Sturdy plastic box
- Private labeling on plastic box possible
- ✓ High-end pooltester
- ✓ Modern designed test block
- ✓ Coloured manual including pictograms

Scuba II

(electronic) pooltester



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- LED photometer with interference filter
- Water tight
- Chlorine (free & total), bromine, pH, cyanuric acid, alkalinity
- ✓ Ergonomic design
- ✓ Large LCD display
- ✓ High accuracy pool testing



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Photometers

- Instruments
- Reagents

Photometer: MD 100

Compact handheld



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- One-time-zero (OTZ)
- Rugged design
- Up to three different LEDs

- ✓ Waterproof
- ✓ Backlit LCD

- ✓ Special version for cooling and boiler water available

Photometer: MD 200

Compact benchtop



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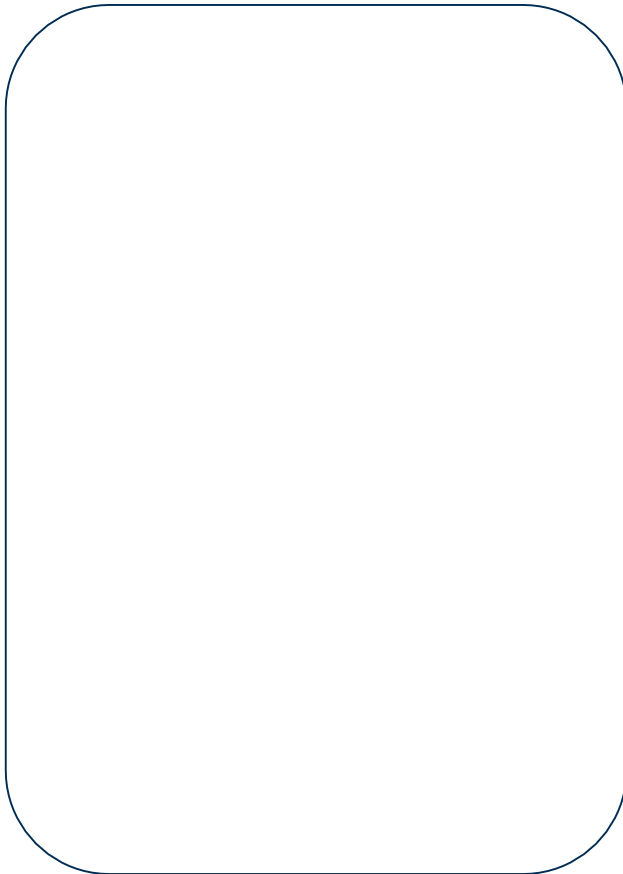
- Similar to MD 100
- Larger battery capacity
- Stable standing position
- ✓ From single parameter to 6 in 1
- ✓ Comes in carrying case
- ✓ Complete economic COD set available

Photometer: MD 600 / MD 610

Handheld



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- 6 LEDs + interference filters
- 120 pre-programmed and 35 user methods
- Up to 1000 data records
- ✓ Optional Bluetooth®
- ✓ Mutli-language UI
- ✓ Automatic wavelength selection

Photometer: MD 640

NEW



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Tracer detection in cooling water



- Like MD 6x0 + PTSA & Fluoresceine detection
- Excitation at 375 nm, emission of 405 nm
- ✓ Precise fluorescence measurement
- ✓ No separated light shield or chamber needed
- ✓ Bluetooth® included

Photometer: PM 6x0

Pool & Spa Handheld



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- All pool parameters within one instrument (PM 630 with Bluetooth®)
- Waterproof
- Water balance calculation
- ✓ Top-quality optical system
- ✓ Intuitive operation
- ✓ Leading instrument in Europe



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Photometer: MultiDirect

Benchtop



- Similar to MD 600, but dual-beam technology
- LED light sources and interference filters
- Mains adapter included
- ✓ Still mobile if necessary
- ✓ Regular software updates üRechargeable batteries

Photometer: SpectroDirect

Benchtop



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- 330-900 nm
- Tungsten light source
- Holographic grating monochromator
- ✓ Sample chamber for Ø 24, Ø 16, 10, 20, 50 mm cuvettes
- ✓ Graphical display
- ✓ Extraordinary price- performance-ratio

Photometer: XD 7000

Benchtop VIS spectrophotometer



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- Automatic test recognition (via barcode)
- More than 140 methods implemented
- Ethernet, PCL-3 printer and USB output
- ✓ Automatic cuvette type detection
- ✓ Reference beam
- ✓ Analytical quality assurance support

Photometer: XD 7500

Benchtop UV/VIS spectrophotometer



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- Like XD 7000 + UV
- Range: 190-1100 nm
- Long-life Xenon bulb light source
- ✓ Spectra and kinetic measurement
- ✓ Additional UV methods (e.g. NO_3)
- ✓ Multi wavelength methods

Tablets

Reagents



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- At minimum 5 years expiration period
- Blister packaging for easy handling
- Each tablet is sealed

- ✓ Made in Germany
- ✓ Precise dosage
- ✓ Secure handling

Powder packs

Reagents



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- Good free-flow properties
- Easy-to-open bags
- Highly soluble
- ✓ Fast and convenient methods
- ✓ Economical analysis
- ✓ Accurate results



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Tube tests

Reagents



- Prefilled reagent tubes
- Ø 16 mm cuvettes
- Suitable for many photometers
- ✓ Highly convenient methods
- ✓ No contact to hazardous chemicals
- ✓ COD tube test according to ISO 15705:2002

Vario line

Powder packs and test kits



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- Compatible to various HACH® methods
- Identical chemical reactions
- Made in Germany
- ✓ Usable on third-party devices
- ✓ Attractive price
- ✓ Reliable results

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Fe in Mo

Iron in cooling water



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- Compatible to HACH® method 8365
- 0.01-1.8 mg/l Fe
- On MD 100, MD 600, MultiDirect
- ✓ Suitable for cooling water
- ✓ No interference to molybdate
- ✓ Reagent set for 100 tests

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Vario Line

Liquid reagents for CL17



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- Ready to use inside HACH® CL17 liquid analyzers
- Identical chemical reactions
- ✓ Attractive price
- ✓ Reliable results
- ✓ Made in Germany

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Safety Data Sheets (SDS)

Support



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- Relevant information on hazardous substances, handling and safety precautions
- In accordance with GHS for several countries
- ✓ Available through our website
- ✓ Ready for private label products
- ✓ Continuously updated

Accessories



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Electro chemical sensors

- Compact devices SD 50 – SD 90
- SensoDirect 110
- SensoDirect 150
- SD 300 – SD 320
- SD 400 Oxi L



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SD handheld meters

Single parameter: pH, ORP, CON, TTS, salinity



- Storage function
- Backlit display
- Waterproof (IP67)
- ✓ Compact and robust
- ✓ Automatic temperature compensation
- ✓ Auto power-off

SensoDirect 110

Single parameter: pH, conductivity, salinity



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- Two-point calibration
- Build-in electrode holder
- Protective casing
- ✓ Light weight
- ✓ Excellent price- performance-ratio
- ✓ Large display

SensoDirect 150

Multi parameter: pH, redox, O₂, CON, TDS, T



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- All in one
- Real time data logger
- RS 232 / USB
- ✓ For multi-purpose operations
- ✓ Intuitive user interface
- ✓ Supplied with case, electrodes, buffers and accessories

SD 300 – SD 320

Single parameter: pH, Oxi, Con



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- 4-pole conductivity cell (CON), automatic buffer detection (pH)
- PC interface & data logger
- GLP features
- ✓ High quality instrument for precise measurement
- ✓ Rugged water resistant design
- ✓ High resolution

SD 400 Oxi L

Single parameter: Oxygen



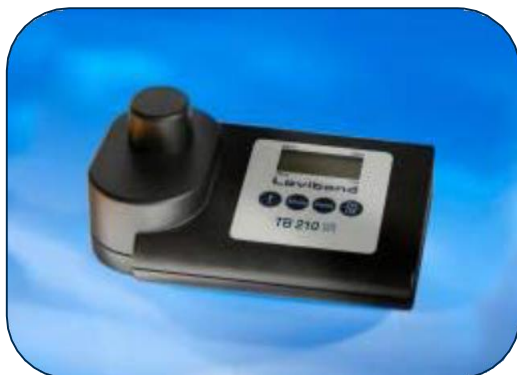
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- Luminescence technology
- Low incident flow of electrode required
- Data logger with simple data management
- ✓ Low maintenance
- ✓ Very short response time
- ✓ High drift stability



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Turbidity

- TB 210 IR
- TB 250 WL
- TB 300 IR

TB 210 IR

Infra-red light source



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- Range 0.01-1100 NTU
- Measurement angle: 90°
- Accuracy $\pm 2.5 \%$
- ✓ 600 tests without battery change
- ✓ Backlit LCD
- ✓ low interference in coloured samples

TB 250 WL

White light source



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IMPROVED

- Auto-ranging
- Meets USEPA
- 7-10 years bulb life
- ✓ Now silicon oil and wiping of cells included
- ✓ Cell indexing
- ✓ Improved software

Turbidity calibration set

EPA approved SDVB standards for TB 250 WL



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- 0.02, 10 or 1000 NTU
- Supplied in 65 ml HDPE bottles
- Transferred into sample cells when needed
- ✓Stable turbidity values
- ✓No degradation in glass
- ✓Better documentation to minimize errors

TB 300 IR

Infra-red light source



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- Meets EN ISO 7027
- Memory: 1000 data sets
- Accuracy: 2 %

- ✓ Automatic range adjustment with standard set T-Cal
- ✓ Waterproof
- ✓ Regular software updates



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Additional products

- BD 600
- Floctester
- Thermostatic incubators
- Industrial Water Testing

BD 600

BOD measurement system



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- Individual programming of each sample
- Manometric, respirometric measurement method
- USB & SD card interface
- ✓ Remote control
- ✓ Brilliant graphic display to compare different respiration curves
- ✓ Mercury-free pressure measurement

Floc Testers

Efficiency of flocculation and precipitation



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- Free programmable timer
- Variable steering speed
- Height adjustment of steering plates during operation
- ✓ Digital display
- ✓ Illuminated back panel (ET 740/750)
- ✓ Maintenance free

Thermostatic incubators

TC series



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- Temperature: 2°C – 40°C
- Power sockets inside
- 6 models, 4 sizes

- ✓ Available with glass doors
- ✓ Adjustable in steps 0.1°C
- ✓ Ideal for BOD determination

Thermostatic incubators

Spark-free cabinets – EX series



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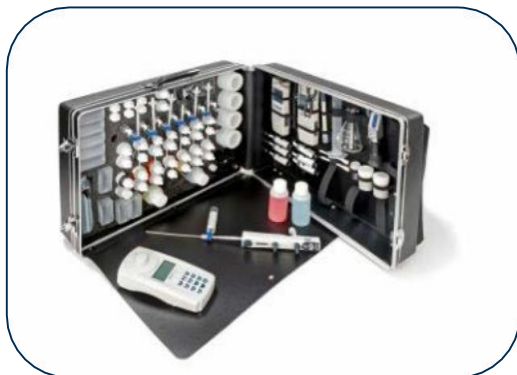


- Spark-free in accordance with BG-I 850-0
- 1-15°C adjustable
- Sturdy sheet steel housing

- ✓ High energy efficiency
- ✓ Digital temperature display
- ✓ Lockable



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Industrial Water Testing

- Customizable case laboratories
- Dipslides
- Portable incubator

Industrial water testing

Customizable case laboratories



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- Professional rugged hardcase
- Customized inlets (foam or solid faced plastic)
- Broad portfolio of accessories available
- ✓ Complete analytical sets for service technicians
- ✓ Freely configurable
- ✓ Easy applicable proven analytical tests

Dipslides

Microbiological testing



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- Early indication of bacteria proliferation
- Results in 48 h
- Shelf life: 6-9 months
- ✓ Best suited for trend analysis
- ✓ Easy-to-use
- ✓ Inexpensive

Dipslides

Available parameters



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- Yeast, Mould, Fungi
- Coliforms & E.coli
- Pseudomonas
- Paeroginosa
- Sulphate reducing bacteria
- Nitrite reducing bacteria
- Aerobic and anaerobic bacteria

Incubator DI 10

Portable



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- Holds up to 12 dipslides or 10 quanti-discs
- Programmable incubation period setting
- Rapid heating times
- ✓ Excellent temperature stability
- ✓ In-car operation
- ✓ Robust design

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Thank you

