

Tintometer GmbH

Lovibond® Water Analysis Equipment: Benefits and Applications



MINIKIT



➔ Benefits

- Complete, ready to use test kits
- Employ simple test methods requiring no chemical knowledge
- Easy to use and safe to handle

➔ Applications

- Water treatment
- Boiling water
- Cooling water
- Industrial process water
- For use in the field or laboratory applications

Arsenic Test Kit



➔ Benefits

- Easy to handle
- Highly sensitive according to WHO requirements (0.005 mg/l Arsenic detectable)
- Resolution: 0 - 0.005 - 0.01 - 0.025 - 0.05 - 0.1 - 0.25 - 0.5 mg As³⁺/5+/-
- Closed reaction vessel to not harm the user by arsine gas escape
- Removal of the interfering sulfide ions is integrated in the test procedure.
- Complete in a carrying case, ready to use

➔ Applications

- Drinking Water
- Use in the field or laboratory

POOLTESTER, 3-CHAMBER-TESTER, POOLCHECK



➔ Benefits

- Complete, ready to use test kits
- Employ simple test methods that require no chemical knowledge
- Easy to use and safe to handle
- Use accurately formulated Lovibond® tablet reagents with a long shelf life

➔ Applications

- Domestic pools
- Public pools

Checkit® Comparator



➔ Benefits

- Handy and reliable colorimetric measurement system
- Different long time stable Checkit® discs for different parameters and measurement ranges available
- Continuous colour scales to achieve an exact colour match between the colour standard and the sample
- Using long time stable Lovibond® tablet reagents
- Complete unit in a case including reagents
- Standard path length 13.5 mm, with Comparator D55 (mirror optics) pathlength of 55 mm for high accuracy of low ranges.

➔ Applications

- Water treatment (e.g. drinking water, boiling water ...)
- Pools
- Laboratory and Field Testing

Comparator System 2000+



➔ Benefits

- Visual test systems for a range of water analysis applications
- Colorimetric measurement system
- 400 different colour discs for different parameters or measurement ranges available
- Long time colour stable Lovibond® glass standards
- Daylight unit with rechargeable battery
- Cell holder up to 40 mm path length

➔ Applications

- Water treatment (e.g. drinking water)
- Pools
- Research centres
- Universities
- Special applications (more than 400 different colour discs; more than 400 different substances and measuring ranges)
- Use in the field or laboratory

Powder Dispenser



- ➔ DPD Method (Vario)
- ➔ For Free and Total Chlorine testing according ISO 7393 - 2:2000
- ➔ Range
 - 0 - 2 mg/l
 - 0.1 - 8 mg/l
- ➔ Sample size 10 ml
- ➔ 250 tests / reagent vials
- ➔ Shelf life: 5 years (reflects unopened ampulle, use material within 6 months of removing the seal)

MD 100 Photometer



➔ Benefits

- Waterproof IP 68
- Automatic Switch-Off
- Real-Time-Clock and Date
- Calibration Mode
- Backlit Display
- Storage Function
- Suitable for use as a testing instrument

➔ Applications

- Water Treatment
- Waste/Drinking Water
- Cooling/Boiler Water
- Pool-Water
- Beverage Industry
- Laboratory and Field Testing



MD100 COD VARIO



➔ Benefits

- Complete COD-Measurement Set-up (MD100 COD VARIO Photometer; COD thermoreactor; COD vario vial tests)
- Accurate and easily performed determination of Chemical Oxygen Demand
- COD vario vial tests are available for 3 measuring ranges:
0 - 150 mg/l O₂, 0 - 1500 mg/l O₂, 0 - 15000 mg/l O₂

➔ Applications

- Waste water
- Municipal and industrial wastewater treatment plants

CheckitDirect Photometer



➔ Benefits

- Microprocessor controlled single and multi-parameter photometers for water analysis
- Long term light stable LEDs as light source
- Automatic zero calibration
- Large digital display
- Compact, ergonomic housing
- Waterproof sample chamber
- Software-based calibration facilities
- Battery operation (up to 800 tests with one battery) for field use and laboratory applications

➔ Applications

- Special applications in all areas of water analysis
- Pools
- For use in the field or laboratory applications



CheckitDirect COD vario



➔ Benefits

- Complete COD-Measurement Set-up (CheckitDirect COD vario Photometer; COD thermoreactor; COD vario vial tests)
- Accurate and easily performed determination of Chemical Oxygen Demand
- COD vario vial tests are available for 3 measuring ranges:
0 - 150 mg/l O₂, 0 - 1500 mg/l O₂, 0 - 15000 mg/l O₂

➔ Applications

- Waste water
- Municipal and industrial wastewater treatment plants



Photometer MaxiDirect



➔ Benefits

- Wide range of pre-programmed methods from ammonia to zinc with applications from drinking to wastewater
- 6 wavelengths
- Long time stable LEDs with interference filters to perform the right wave length
- Waterproof
- IR interface with IRiM (infra-red interface modul) to connect to a PC or Printer.
- Update of new methods and languages via the Internet
- User defined methods
- Memory for 1000 data sets

➔ Applications

- Wastewater and drinking water
- Industrial process water
- Scientific applications
- Laboratory and mobile use





Photometer MultiDirect



➔ Benefits

- Wide range of pre-programmed methods from ammonia to zinc with applications from drinking to wastewater
- 6 wavelengths
- Long time stable LEDs as light source
- Graphic display
- RS 232 interface
- Rechargeable battery (recharged within the instrument)
- Update of new methods and languages via the Internet
- Memory for 1000 data sets

➔ Applications

- Wastewater and drinking water
- Industrial process water
- Scientific applications
- Governmental and private laboratories
- Universities
- Research centres



SpectroDirect Photometer



➔ Benefits

- Spectrophotometric instrument (330 - 900 nm)
- Wide range of pre-programmed methods from ammonia to zinc with applications from drinking to wastewater
- Wavelength scanning from 330 to 900 nm
- user-specific methods
- Multifunctional sample chamber (16 and 24 mm round vials; 10 - 50 mm rectangular cells without adapter)
- RS 232 interface to transfer data from and to the PC
- Update of new methods and languages via the Internet
- Memory for 1000 data sets

➔ Applications

- Wastewater and drinking water
- Industrial process water
- Scientific applications
- Governmental and private laboratories
- Universities
- Research centres



BOD-OxiDirect® BOD-Measurement System



➔ Benefits

- Direct sample selection
- Direct display of BOD values in mg/l
- Manometric measurement system
- Selectable measuring period 1 - 28 days (BOD₅, BOD₇, OECD...)
- Result memory for up to 28 days
- Measuring ranges from 0 - 40 mg/l to 0 - 4000 mg/l
- Ecologically friendly (mercury-free)
- Interface RS232

➔ Applications

- Wastewater
- Determination of biological activity
- Municipal and industrial wastewater treatment plants
- Governmental and private analytical laboratories
- Universities
- Research centres

Thermostatically Controlled Cabinets



➔ Benefits

- Temperature from 2 °C to 40 °C
- Regulate in steps of 1 °C with a stability of 0.5 °C
- Volume 135 to 395 litres
- Optional glass door
- Various applications e.g. BOD, microbiological testing, storage of water samples

➔ Applications

- BOD determination
- Microbiological research
- Food testing and production
- Governmental and private waste water laboratories
- Universities
- Research centres
- Dairies

Laboratory-Refrigerators/ EX



➔ Benefits

- Laboratory guidelines **BGR 120** state that the interior of refrigerators in which a dangerous, explosive atmosphere can develop (e.g. from stored, flammable fluids) must be protected against explosion
- Lovibond® CFC-free refrigerators in the EX-series meet these guidelines and are TÜV-certificated
- The exterior is manufactured from rugged sheet steel with an impact resistant powder coating

➔ Applications

- All kinds of laboratories
- Universities
- Research centres



Hand-Held Meter: SensoDirect 150 - pH/ORP, DO, CD/TDS



➔ Benefits

- pH/Redox, Conductivity, Dissolved Oxygen etc.
- All in one
- Real time data logger
- Large digital display
- Protective casing
- RS 232

➔ Applications

- Drinking Water
- Cooling/Boiler Water
- Waste Water
- Pool Water
- Surface Water
- Water Treatment Companies
- Industrial and Governmental Laboratories



Hand-Held Meters: SensoDirect 110 - pH and Conductivity



➔ Benefits

- High measuring accuracy
- Light weight
- Protective casing
- Large digital display
- “Low battery” indicator
- Two point Calibration

➔ Applications

- Wastewater and drinking water
- Industrial process water
- Scientific applications
- Governmental and private laboratories
- Universities
- Research centres

Hand-Held Meters: SensoDirect 200 for pH, Conductivity/TDS and Oxygen



➔ Benefits

- Compact, reliable and easily handled
- Water and shock-proof to IP 67
- Hold-function
- Automatic temperature compensation
- Memory for 20 pairs of values
- Up to 15000 hours battery operation
- SensoDirect pH200: pH/Redox measurement; automatic buffer recognition
- SensoDirect Con200: conductivity measurement; not sensitive to dirt; up-to-date 4-electrode technology offering maximum precision
- SensoDirect Ox200: oxygen partial pressure/oxygen concentration/oxygen saturation, temperature measurement; no polarization period needed; easy calibration against oxygen in air

➔ Applications

- Drinking water
- Boiler water
- Cooling water
- Wastewater
- Pool water
- Surface water
- Industrial and governmental laboratories
- Water treatment companies



Lovibond Turbidity Measurement



➔ Benefits

- TurbiDirect , TurbiCheck and TurbiCheck WL: laboratory and field use
- Infrared light source for colourless and coloured samples
- TurbiCheck WL with white light source
- Range: 0,01 - 1100 NTU
- Complete unit including accessories and calibration standards

➔ Applications

- Drinking water, wastewater
- Water treatment (monitoring, filtration, flocculation and precipitation)
- Governmental, industrial and private laboratories
- Beverage production (wine, juice)
- Public pools
- Food industry
- Microbiological research

Floc Tester



➔ Benefits

- Continuously variable stirring speed
- Digital display
- Timer feature
- Height adjustment of the stirring plates during operation
- Type ET 730 portable, for use in the field or laboratory applications

➔ Applications

- Efficiency testing of flocculation or precipitants
- Manufacturers of flocculation expedient
- Municipal and industrial wastewater treatment plants
- Governmental and private laboratories
- Universities
- Research centres