Water Analysis

Proven Solutions for Sound Water Analysis

METTLER TOLEDO
All Water Samples
Analyzed with Competence

Water quality analysis for all purposes greatly relies on instruments from METTLER TOLEDO. The instruments provide precise and reliable results at the touch of a fingertip. Whatever your water quality requirements are, METTLER TOLEDO’s instruments help you to achieve them.

Full range of applications
Many methods for analyzing drinking water, pure water and sewage are available from METTLER TOLEDO and are carried out with portable meters, laboratory instruments or in-line monitors.

Analyze drinking water for tap or bottle
Carefully monitor the water quality of drinking water sources. State-of-the-art titrators and other METTLER TOLEDO instruments provide fully automated workflows, help you to master the sample throughput and deliver reliable and consistent results.

Check bodies of water
Follow the water quality from rivers and lakes to streams and the sea. Portable meters provide measurements on the spot. Laboratory instruments are utilized for extended analysis.

Avoid contaminants in high purity water
Highly accurate and traceable conductivity analysis is critical to obtaining reproducible solutions and for contamination control of water samples.
Manage the efficiency of the purification plant and check the effluents with rugged and reliable instruments. METTLER TOLEDO supplies instruments for lab use and in-line monitoring to provide you with the required analysis data.

Check the quality of incoming chemicals such as flocculation agents, disinfectants and precipitation reagents to assure efficient purification steps.

Determine the content of solids in primary, activated, digested and dewatered sludges using METTLER TOLEDO’s halogen moisture analyzers. Monitor your processes and achieve high efficiency.
Well Established Methods
to Prove the Water Quality

Water analysis is a firmly established territory of titration and related techniques. Classical test parameters, such as hardness or alkalinity, have been determined for decades by applying titrimetric methods. Other frequently used analysis methods are weighing, for determining total and suspended solids, and potentiometry, for measuring pH and the presence of other ions, such as ammonium.

Some typical analysis parameters

- Tap and drinking water: pH, conductivity, total dissolved solids (TDS), alkalinity, hardness, calcium, magnesium, chloride, dissolved oxygen (DO), sodium, potassium
- Pure water: Conductivity/resistivity, total organic carbon (TOC)
- Wastewater: Chemical oxygen demand (COD), permanganate value, turbidity, dissolved oxygen, dissolved CO₂, pH, suspended matter, solids of sludges

METTLER TOLEDO offers a comprehensive range of portable and benchtop meters and an extended line of sensors for pH, conductivity, ions, DO and other applications. Select the most fitting combination to cover your needs.

Wherever you need to measure, a suitable meter and sensor are ready for you. METTLER TOLEDO offers a comprehensive range of portable and benchtop meters and an extended line of sensors for pH, conductivity, ions, DO and other applications. Select the most fitting combination to cover your needs.

Start the right method with One Click™ and let the analysis proceed automatically. Methods for many parameters are available and well documented in an Application Brochure. METTLER TOLEDO titrators are suitable for single sample and serial sample workflow automation.

Robust and durable high resolution analytical balances from METTLER TOLEDO provide unprecedented weighing performance. Clever design features and accessories such as ErgoClips or SmartGrid make weighing fast, easy and safe. A dedicated kit, which is quickly mounted, improves filter weighing greatly.
Halogen moisture analyzers from METTLER TOLEDO deliver accurate and precise results time after time thanks to modern halogen drying technology. Instruments which are easy to operate and simple to clean, deliver results in just a few minutes.

Rapid and reliable determination of total solids

Durable sensors, rugged housings as well as simply to integrate transmitters ensure process quality day in, day out with precision and minimal maintenance. METTLER TOLEDO offers an extended selection of sensors, housings and transmitters to match all purposes.

On-line monitoring without break-up or headache

Identify and quantify the sources of uncertainty in your analytical procedures and calculate the combined measurement uncertainty. Be certain in the assessment of the analytical results. Visit METTLER TOLEDO’s live webinars or customer seminars.

Be certain of the uncertainty
Elegant Solutions
To Master the Sample Workflow

The rigorous testing necessary to always achieve the best water quality levels generates a high and constant flow of samples. Comprehensive solutions from METTLER TOLEDO will help you to build an analysis system according to your needs.

Instruments for all applications
- Automatic titrators for single samples, multiple samples and sample series
- Meters and sensors for portable and laboratory use
- Liquid and sample handling equipment for enhanced automation

Simply combine the parts you need to run multiparameter water analyses

| Titration Excellence line allows you to tailor the system solutions to your laboratory needs. |
| - Fully automated determinations including changing of samples, rinsing and conditioning, dosing of reagents or sample heating |
| - Avoid cross contamination thanks to powerful rinsing, suitable to measure from low to high concentration |
| - Connection to 3rd party instruments possible |
| - Comprehensive and audit compliant data management provided by LabX titration |

Accurate dosing and diluting of samples and standards

The Liquid Handler automatically doses single and series samples, prepares standard solutions and dilutes with up to three different solvents or reagents.
Titrate High Sample Numbers

The Sample Handler enables efficient titration of 42 x 100 mL or 80 x 80mL samples. Simply place your beakers on the compact FlipRack™ and start the analyses.

When you need to automate pH measurement

Use the small Rondolino sample changer and reduce the number of manual operation steps when measuring pH value.
Comprehensive After Sales Support

Rely on METTLER TOLEDO’s global service network of more than 5,000 factory-trained specialists.

- Full coverage contracts to guarantee optimized up-time and productivity
- Application support for methods and standards to assure high data quality and reliability.
- Support for training of plant workers and supervisors to achieve efficient and confident work processes.
- Technical support regarding calibration, maintenance and repair available on short response time.

Learn about the Good Titration Practice™ (GTP™)
Safe titration begins long before daily titration in the laboratory: selection of the right titration system, as well as professional installation and training, are the basis for titration with minimized risk. Targeted maintenance and correct operation during everyday application guarantee reproducible results.

› www.mt.com/gtp

Good Weighing Practice™ (GWP®)
Comply with regulations, apply the right balance and reduce weighing risks with the internationally recognized GWP guidelines from METTLER TOLEDO.

› www.mt.com/gwp

Get detailed information online
We have prepared special pages with additional literature on the products of this brochure, application notes, technical specifications, interactive demonstrations and more.

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