xylem

TITRONIC and TitroLine

TITRATORS AND BURETTES

YSI

a **xylem** brand

TITRONIC® and TitroLine®
Titrators and Burettes

Basic Piston Burette

The TITRONIC 300 is an extremely exact motor driven burette utilized in precise dosing of dispensable liquids, solvents, and titrants. The TITRONIC 300 can operate as a stand-alone unit, or can be integrated with up to 16 additional devices.

Advanced Piston Burette

The TITRONIC 500 is the ideal piston burette for manual titrations and accurate dosing applications, as well as the preparation of solutions. The TITRONIC 500 features intelligent interchangeable modules with 5, 10, 20 and 50 mL volume capacity. The system's functionality can be expanded to include titration or pre-dosing when used with our TitriSoft Software, or when coupled with our TitroLine 7000 or higher titrators.

Simple Titrator

For simple titration needs, the TitroLine 5000 is the quintessential solution. Cost-effective and flexible, it is perfect for a variety of applications, including determining the salt content in food, total acid in wine and other beverages, and total Kjeldahl nitrogen.

Advanced Titrator

The TitroLine 7000 stores up to 50 user methods, has an integrated self-powered magnetic stirrer, and is equipped with either a 20 or 50 mL electronic burette. The system's menu driven modes provide easy programming and with the simple click of a mouse you can perform manual titrations, routine dosing operations, and time-based incremental additions. The unit can also be daisy chained. The TitroLine 7000 has a built-in signal amplifier, making it ideal for titrations in non-aqueous solvents. Ideal for pH, COD, total Kjeldahl nitrogen, volatile fatty acids, food and beverage products, TAN and TBN in petroleum products, and titrations in glacial acetic acid and perchloric acid.

YSI's suite of accurate, dependable burettes and titrators are available with a wide variety of autosamplers, accessories, electrodes and sensors. Visit us online at ysi.com/titration to learn more.

Karl Fischer Titrators

The TitroLine 7500 KF accurately determines moisture over a wide range, while the TitroLine 7500 KF Trace analyzes low concentrations of moisture in samples. Both offer fast, easy, precise results and include standard methods. Our Karl Fischer titrators provide online display of the measurement curves, drift, and solvent consumption; allowing accurate monitoring to avoid any deviations from the method.

Multi-Parameter Titrator

The TitroLine 7750 combines the key components of the potentiometric titrator and volumetric Karl Fischer titrators. Fast, easy and precise, this titrator features a live titration curve. It also offers the ability to change modules and store results, which are easily viewed on a full-color display. Connectibility is simple and robust with its 2 USB-host, 1 USB-PC, and 2 RS232 ports. Perfect for Karl Fischer water determinations, acidity in fats and oils, ascorbic acid, free and total sulfur dioxide (SO_2), acidity in wine and soft drinks, epoxy numbers, TAN and TBN in petroleum products, and more.
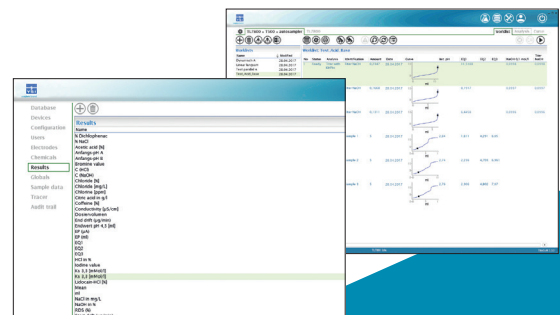
High Performance Titrator

The powerful TitroLine 7800 enhances the features of the TitroLine 7750 through the addition of compatibility with our intelligent digital sensors (IDS). These digital sensors cover a wide range of applications requiring pH, conductivity, and/or ORP measurements. The IDS convert analog measurements into a digital signal for greater measurement integrity. This conversion helps to avoid external interferences such as moisture, electro-magnetic fields, or pulses; giving you more precise and accurate readings. The TitroLine 7800 is ideal for food and beverage, petrochemical, and water analyses including calcium and magnesium hardness and pH+ conductivity + acid capacity, and more.

Powerful, Intuitive Titration Software

YSI's TitriSoft Software is the optimum software solution for all of your titration tasks. The software works with the TitroLine 7000 series and TITRONIC burettes to give you the ability to configure and control multiple devices to improve laboratory workflow and ensure regulatory compliance. Intuitive and user-friendly, TitriSoft provides method creation, data handling and reporting capabilities. TitriSoft is GLP and ISO-compliant and is available with 21 CFR Part 11.

TitriSoft® Software

Application	TITRONIC 300	TITRONIC 500	TitroLine 5000	TitroLine 7000	TitroLine 7500 KF	TitroLine 7500 KF *trace*	TitroLine 7750	TitroLine 7800
Intelligent interchangable units (5, 10, 20 and 50 mL)	*	■	*	■	■	—	■	■
Manual titration	■	■	■	■	—	—	■	■
Dosing	■	■	■	■	■	—	■	■
Solutions preparation (Manually or automatically with connected balance)	—	■	—	■	■	—	■	■
Automatic titration (Independent with external software)	**	**	■	■	■	■	■	■
Applications with TitriSoft	■	■	—	■	■	■	■	■
pH-stat-applications (Enzyme kinetics, soil samples, biotechnology)	—	—	—	■	—	—	■	■
Applications with sample changer	—	—	—	■	—	—	■	■
pH/mV titrations "aqueous" (Alkalinity, hydrochloric acid, citric acid, Kjeldahl…)	—	—	■	■	—	—	■	■
pH/mV titrations "non aqueous" (TAN/TBN, FFA, titrations with perchloric acid…)	—	—	—	■	—	—	■	■
Redox titrations (Iodometry, permanganometry….)	—	—	■	■	—	—	■	■
Redox titrations (COD)	—	—	■	■	—	—	■	■
Halide titrations (Chloride, "salt"…)	—	—	■	■	—	—	■	■
Hydrogen sulphide and mercaptans	—	—	—	■	—	—	■	■
Sulfurous acid in wine and beverages	—	—	—	■	■	—	■	■
Bromine number	—	—	—	■	■	■	■	■
Water analysis according to KF Volumetric method (10 ppm – 100 %)	—	—	—	—	■	—	■	■
Water analysis according to KF Coulometric method (1 ppm – 5 %)	—	—	—	—	—	■	—	—
Measuring two parameters at the same time (e.g. pH and Cond)	—	—	—	—	—	—	—	■
Photometric titration (OptiLine 6)	—	—	—	■	—	—	■	■

* 20 and 50 ml dosing unit usuable (no intelligent interchangeable units)
** Can be used as titration and dosing burette in automatic titration systems

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