

TitroLine® 7750 - One for all

The TitroLine® 7750 is the all-rounder for both potentiometric titration and volumetric KF titration. The TitroLine® 7750 combines the features of the potentiometric titrator TitroLine® 7000 and the volumetric Karl Fischer titrator TitroLine® 7500.

The new TitroLine® 7750 is characterized as follows:



TitroLine® 7750 with accessories for potentiometric titration

- ▶ Storage of results using via USB port (PDF - and CSV -format) including method transfer
- ▶ With standard methods for potentiometric and KF titration

The new Titrator from SI Analytics - more options

- ▶ Highly visible full color display, that can be easily viewed from a distance and extreme angles
- ▶ With new interchangeable modules which all relevant reagent and unit data can be stored
- ▶ Thanks to the 2 x USB-host, 1 x USB-PC and 2 x RS232 ports very expandable. Connectable are e.g. USB keyboard, USB printer, barcode reader, USB flash drives, balances, PC und further SI Analytics devices such as piston burettes and sample changers



TitroLine® 7750 with accessories for KF titration

→ Please refer to pages 14 and 20 (TitroLine® 7000 and TitroLine® 7500 KF) for more basic details of TitroLine® 7750.

TitriSoft 3.0 – convincingly simple ...

The TitriSoft 3.0 titration software is the optimum solution for your titration tasks. The software can be used with Windows XP, Vista and 7 and supports your daily work procedures during sample preparation, titration and evaluation of the results. The software has been developed to be clear, logical and user-friendly.

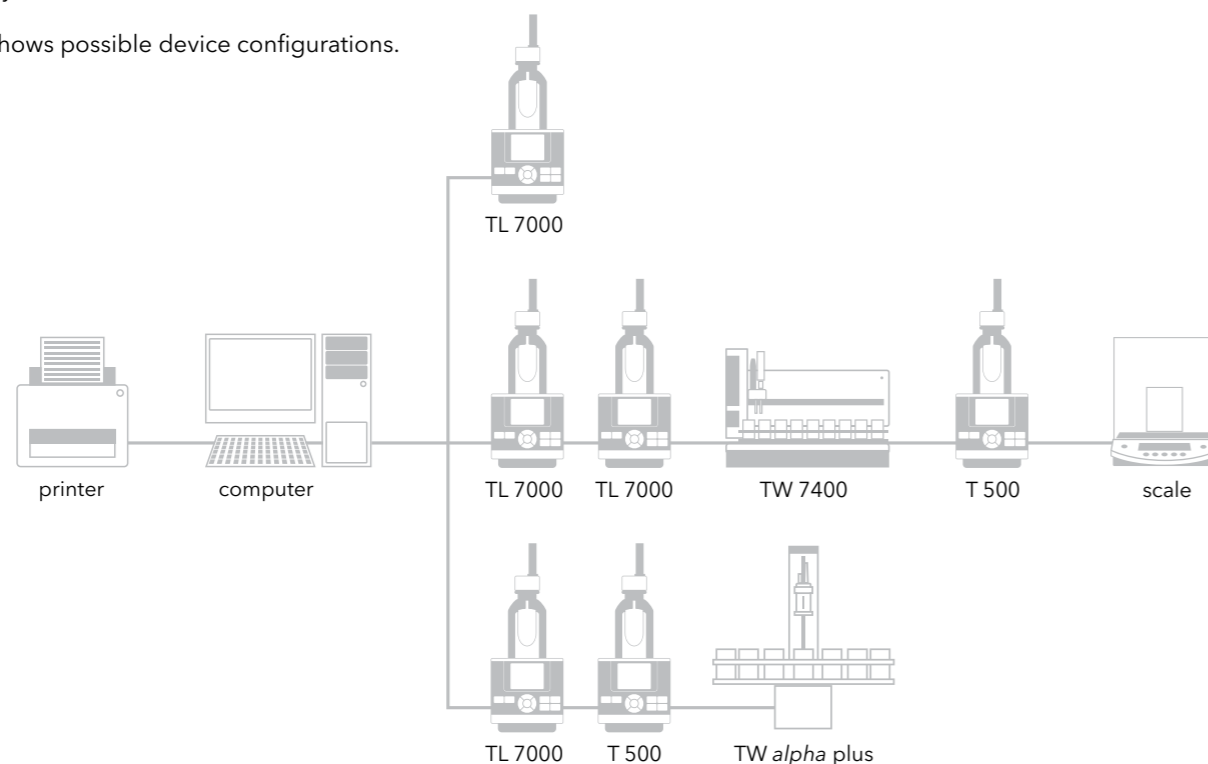
Connection possibilities

Using TitriSoft 3.0 you can control the following devices from a PC:

- **Titration units** (TitroLine® 7000, 7750, 7500 KF, 7500 KF *trace* and TitroLine® *alpha plus*)
- **Sample changers** (TW *alpha plus*, TW 7400, TW *alpha* und TW 280)
- **Piston burettes** (TITRONIC® 500 and TITRONIC® *universal*, TITRONIC® 110/200 and TITRONIC® 110 *plus*)
- **Balances**

You can connect the titration hardware to any of your PC's available USB-A or serial interfaces. Each of the interfaces allows different combinations of devices (configurations). To automate a titration procedure the software may be used to control the TitroLine® 7000 in connection with the TW *alpha plus* sample changer. For more complex titration tasks with sample preparation you can dose with piston burettes followed by titration with a TitroLine® 7000. Of course, you can also use the software for dosing only.

The image below shows possible device configurations.



System requirements

For optimal and fast working with the TitriSoft 3.0 software your system should be equipped as shown below:

Interface: a free USB or RS232-interface per configuration

Computer: Pentium D (Dual-Core) 2 GHz or higher

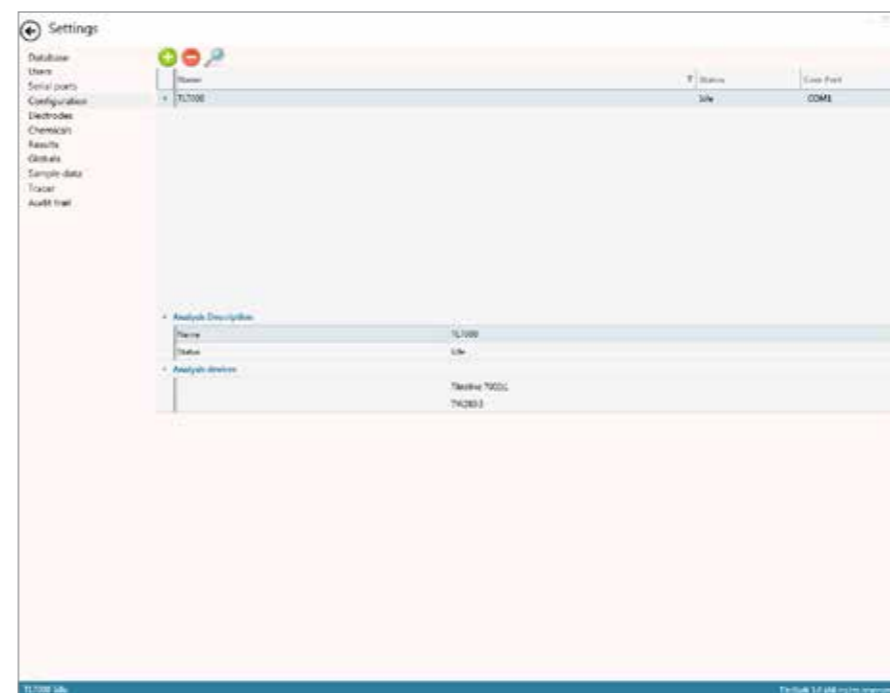
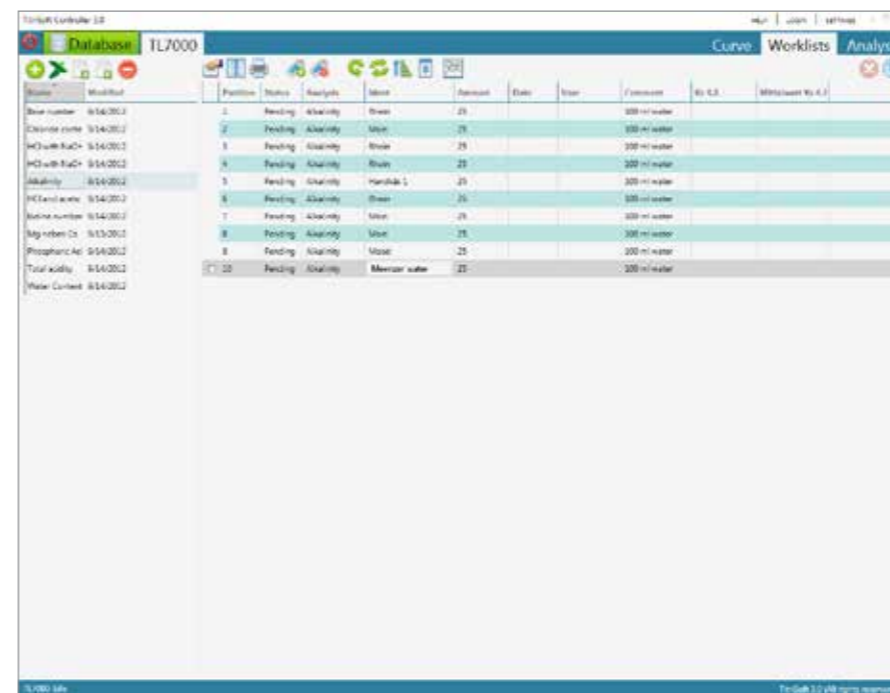
Operating system: Windows XP, Vista or 7

RAM: minimum 2 GB

Hard disk:
minimum free storage volume 200 MB

Graphics card:
minimum resolution 1280 x 1024

... strong benefits ...



»Navigator«, the main menu

The different software tasks are assigned to five different centers:

- Settings,
- Database,
- Analysis,
- Worklists
- Curve

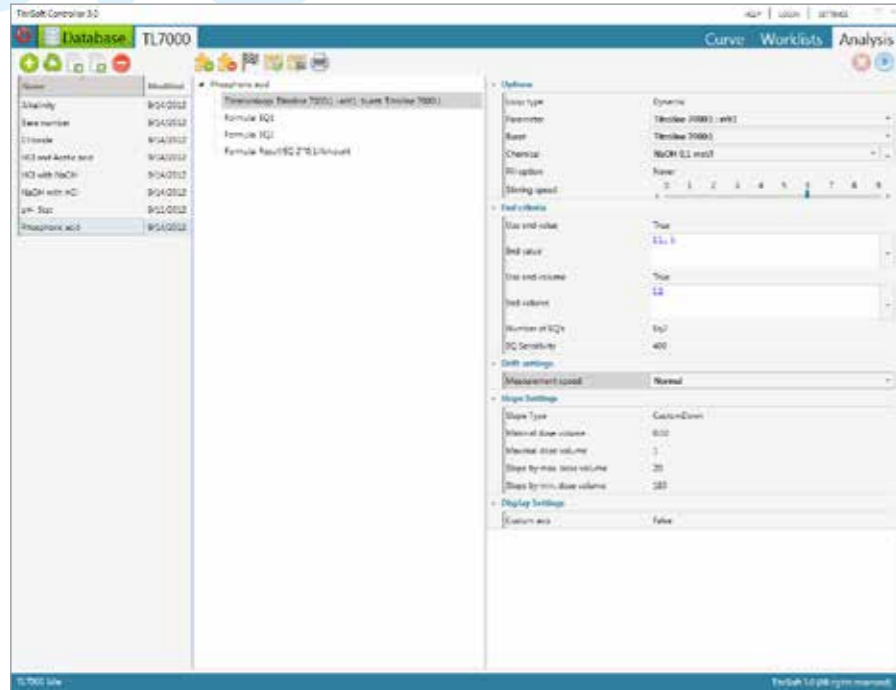
Each of these centers can be chosen at the menu bar.

»Settings«, the system configuration

In the system configuration, the software is set up for operation prior to running the first application, i.e. a configuration is set up with the connected hardware. The configuration of the attached hardware is automatically detected in a hardware scan. Each of these hardware configurations allows any number of "methods" and "work lists". Different configurations can work in parallel (see Connection Possibilities).

All TitriSoft users can be listed by their names. TitriSoft supports five user types. The Administrator has access to all configuration and software operation options. The "Administrator" has access to all configuration and software operation options. The "User" or "Advanced User" has the same rights as the Administrator but is not allowed to delete results, methods and worklists. Users are restricted to operation of the Titration Center which very much simplifies matters.

... clearly structured ...



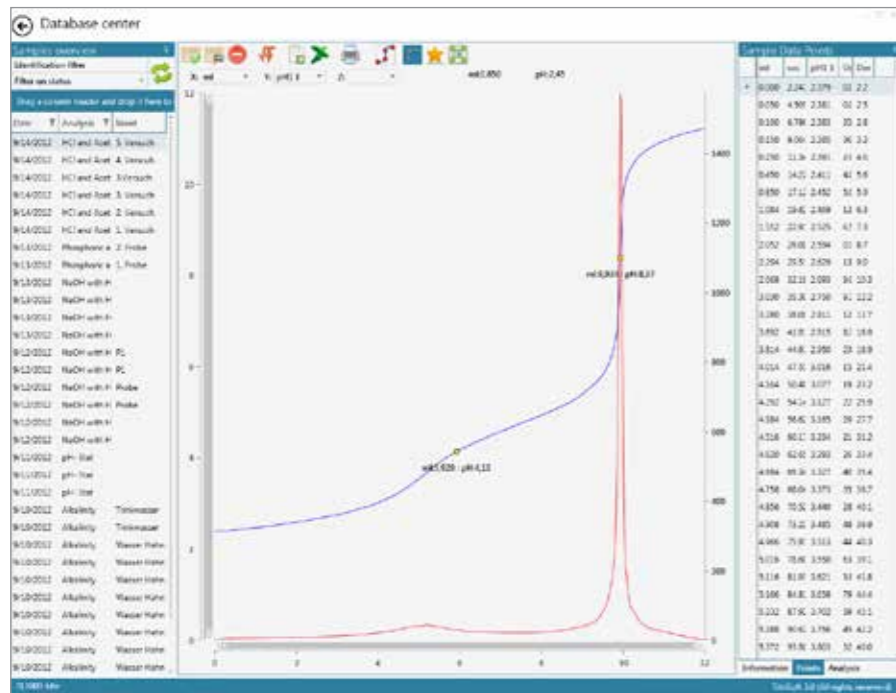
›Analysis, your method center

This is where you set up and save your titration methods. Even complex methods can be installed with a few mouse clicks. Adjustment of the titration parameters is facilitated by the use of symbolic slide controls. Functions such as waiting time, IF loops, repetition, dosings and measurements in addition to the titration parameters and calculation formulas provide virtually unlimited options for method procedures.

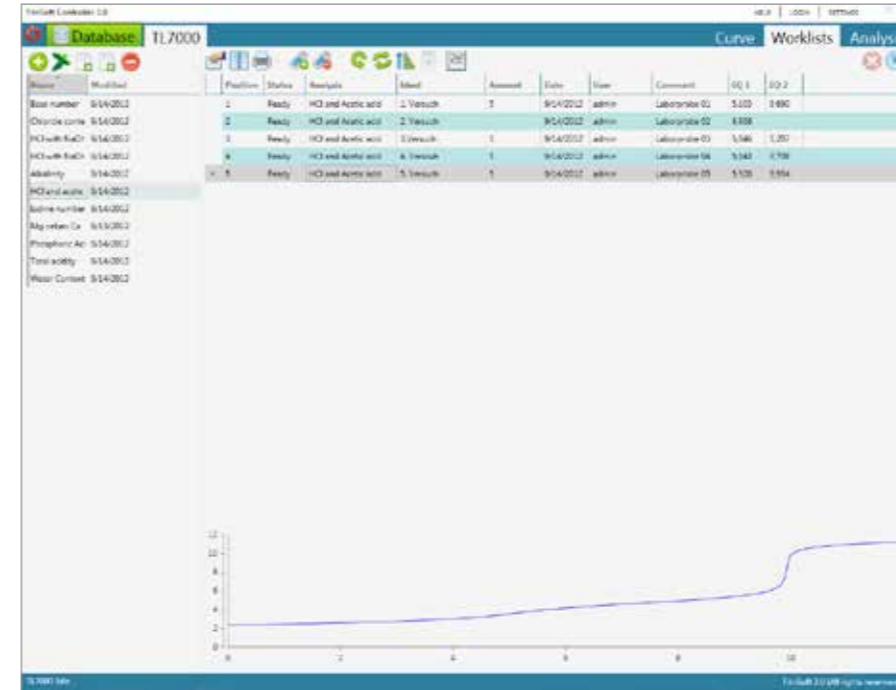
›Database, your database

Titration curves, results, measured values and used methods of all titrations are stored in the database. These data can be selected by sample name, date, user and method and loaded in a few seconds.

Information on titrations performed can be displayed in the form of a diagram, results list or measured value list. You can optimize stored titration information in accordance with your requirements, e.g. add and store subsequent calculations or analyze titration curves and print it out together. Additionally, an export of the data to Excel and ASCII is also available.



... highly productive: TitriSoft 3.0



›Worklists, your clearly structured workplace

›Worklists is the place where you carry out your daily jobs, i.e. select methods, enter sample names and origin weighed-in quantities, start the work list and display (and print if desired) the results at the end of a titration. The work list shows the individual samples with the associated methods and their characteristics such as sample name, number, status, date, time, results and events and other freely configurable sample data, e.g. density.

During the process you can follow the titration under „curve“ or directly via the worklist. You can, however, simply allow the samples to be processed in the background and use the PC for other tasks or start an additional titration with another configuration in parallel.

When working with the TW *alpha* plus and TW 7400 sample changer, you can adjust various settings such as skip empty items, rinse and waiting options.

Documentation, which is in accordance with GLP and ISO 9000 directives, can be produced in a number of different forms; tables, lists, curves or individual print-outs with curves. In addition results can be saved in ASCII or CSV format, external documentation programs may be accessed and results transferred directly, e.g. into a LIMS.

TitriSoft

TitriSoft 3.0 P – simply reliable ...

In this case, the “P” stands for “pharmaceutical”. The TitriSoft 3.0 P fully meets all requirements of the FDA 21 CFR Part 11 regulation regarding „Electronic Records“, „Electronic Signature“ and „Audit Trail“.

The FDA (i.e. Food and Drug Administration of the USA) 21 CFR Part 11 regulations describe how to deal with electronically stored data (“Electronic Records”) and how to prepare electronic signatures (“Electronic Signature”). These regulations are binding for all companies offering medical, pharmaceutical or food products and services in the USA.

System requirements

For optimal and fast working with the TitriSoft 3.0 software your system should be equipped as shown below:

Interface: a free USB or RS232-interface per configuration

Computer: Pentium D (Dual-Core) 2 GHz or higher

Operating system: Windows XP, Vista or 7

RAM: minimum 2 GB

Hard disk:
minimum free storage volume 200 MB

Graphics card:
minimum resolution 1280 x 1024

Controlled Access

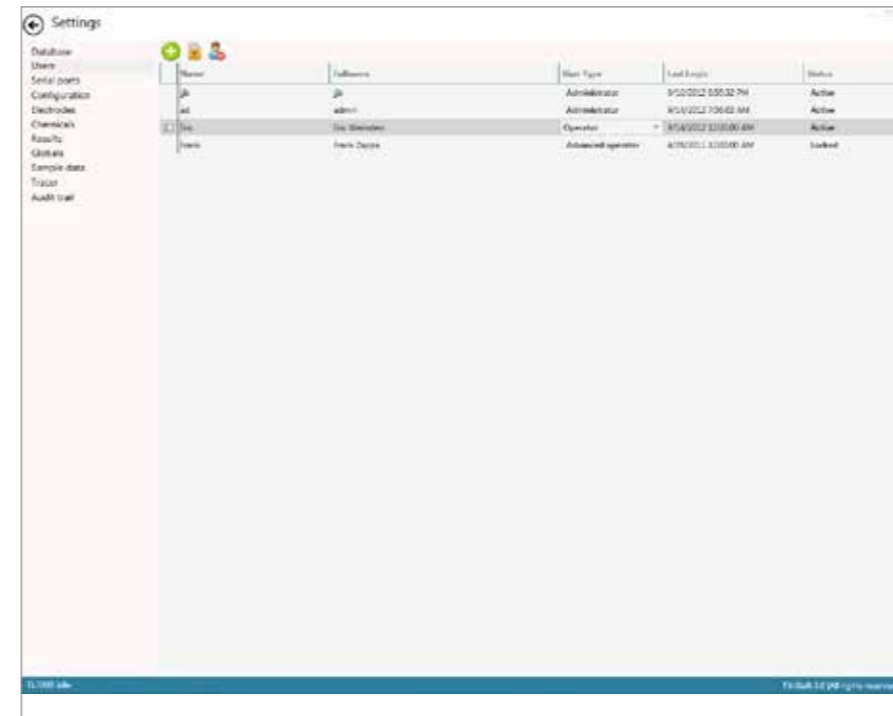
The controlled access guarantees that only authorized individuals have access to the software functions, according to your company’s security policy and the FDA requirements.

TitriSoft 3.0 P has 5 different access levels: The “Operator” level does only allow to carry out the routine titrations, whereas the “Advanced User” level is entitled to approve the methods. The highest level, the “Administrator” may set up the users and assign them the user rights. He even has the permission to delete records, but only after a copy of the database has been generated.

3.0 P

Comparison between TitriSoft 3.0 and 3.0 P

| Functions | TitriSoft 3.0 | TitriSoft 3.0 P |
|---|---------------|-----------------|
| Electronic Record | | ■ |
| Electronic Signature | | ■ |
| Audit Trail | | ■ |
| Controlled Access | | ■ |
| Copies of Records | | ■ |
| Manual with forms for SOPs, IQ, OQ, PQ and validation reports | | ■ |
| Straightforward procedure | ■ | ■ |
| All types of titrations | ■ | ■ |
| Comfortable worklists | ■ | ■ |
| Online titration curves | ■ | ■ |
| Clear documentation | ■ | ■ |
| Perfect titration control by PC | ■ | ■ |



TitriSoft

Specifications - Piston burettes TITRONIC® 500 and automatic

Titration Titrators TitroLine® 6000/7000/7500 KF/7500 KF trace/7750

| Features | TITRONIC® 500 | TitroLine® 6000 | TitroLine® 7000 | TitroLine® 7500 KF | TitroLine® 7500 KF trace | TitroLine® 7750 |
|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Display | Color online graphic | Color online graphic | Color online graphic | Color online graphic | Color online graphic | Color online graphic |
| Measuring input pH/mV with reference input | - | ■ | ■ | - | - | ■ |
| Wireless electrode recognition | - | - | ■ | - | - | ■ |
| Measuring input Dead stop (2 x 4 mm connector) | - | ■ | ■ | ■ | ■ | ■ |
| Measuring input generator electrode (2 x 4 mm connector) | - | - | - | - | ■ | - |
| Measuring input temperature (2 x 4 mm connector) | - | ■ | ■ | - | - | ■ |
| Interfaces | 2 x USB-A, 1 x USB-B 2 x RS232 | 2 x USB-A, 1 x USB-B 2 x RS232 | 2 x USB-A, 1 x USB-B 2 x RS232 | 2 x USB-A, 1 x USB-B 2 x RS232 | 2 x USB-A, 1 x USB-B 2 x RS232 | 2 x USB-A, 1 x USB-B 2 x RS232 |
| Balance connection | RS232 | RS232 | RS232 | RS232 | RS232 | RS232 |
| Printer (USB-A) | HP PCL, Seiko DPU S445, PDF | HP PCL, Seiko DPU S445, PDF | HP PCL, Seiko DPU S445, PDF | HP PCL, Seiko DPU S445, PDF | HP PCL, Seiko DPU S445, PDF | HP PCL, Seiko DPU S445, PDF |
| Intelligent interchangeable modules (5, 10, 20 and 50 ml) | ■ | ■ | ■ | ■ | - | ■ |
| Burette solution (steps) | 10,000 | 10,000 | 10,000 | 10,000 | - | 10000 |
| Manual titration | ■ | ■ | ■ | - | - | ■ |
| Dosing applications | ■ | ■ | ■ | ■ | - | ■ |
| Solution preparation (manual or automatic when connected to balance) | ■ | ■ | ■ | ■ | - | ■ |
| Automatic Titration (Independent without external software) | 1) | ■ | ■ | ■ | ■ | ■ |
| Titration to mV and pH end points | - | 2 EP | 2 EP | - | - | 2 EP |
| Dynamic and linear titration to inflection points (EQ) mV and pH | - | 1 EQ | 2 EQ | - | - | 2 EQ |
| Particularly suitable for non aqueous titrations | - | - | ■ | - | - | ■ |
| Dead-stop-titration | - | ■ | ■ | ■ | - | ■ |
| pH-stat-titration | - | - | ■ | - | - | ■ |
| Water determination according to KF volumetry (10 ppm - 100%, recommended) | - | - | - | ■ | - | ■ |
| Water determination according to KF coulometry (1 ppm - 5%, recommended) | - | - | - | - | ■ | - |
| Standard methods | ■ | ■ | ■ | ■ | ■ | ■ |
| Number of user methods | 15 | 15 | 50 | 50 | 50 | 50 |
| Connection and control of autosamplers | - | - | ■ | - | - | ■ |
| Can be controlled with TitriSoft 3.0 | ■ | - | ■ | ■ | ■ | ■ |

1) Can be used as titration and dosing burette in automatic titration systems

Specifications – Piston burette TITRONIC® 500

TitroLine® 6000/7000/7500 KF/7500 KF trace/7750

| Features | TITRONIC® 500 | TitroLine® 6000 | TitroLine® 7000 | TitroLine® 7500 KF | TitroLine® 7500 KF trace | TitroLine® 7750 |
|---|--|--|--|---|--|--|
| Measuring input pH/mV with reference electrode input | – | pH/mV-input with 24 bit transducer Electrode socket according to DIN 19 262 or additional with BNC socket insert | pH/mV-input with 24 bit transducer Electrode socket according to DIN 19 262 or additional with BNC socket insert RFID receiver for SI Analytics ID electrodes | – | – | pH/mV-input with 24 bit transducer Electrode socket according to DIN 19 262 or additional with BNC socket insert RFID receiver for SI Analytics ID electrodes |
| Measurement range pH | – | -3.0 to 18.00 | -3.0 to 18.00 | – | – | -3.0 to 18.00 |
| Display resolution pH | – | 0.001 | 0.001 | – | – | 0.001 |
| Accuracy pH (without sensor probe) | – | 0.002 ± 1 Digit | 0.002 ± 1 Digit | – | – | 0.002 ± 1 Digit |
| Measurement range mV | – | -2000 to 2000 | -2000 to 2000 | – | – | -2000 to 2000 |
| Display resolution mV | – | 0.1 | 0.1 | – | – | 0.1 |
| Measurement input Dead stop (2 x 4 mm socket) | – | Connector (µA) for double platinum electrodes Polarisation voltage variably adjustable from 40 to 220 mV | Connector (µA) for double platinum electrodes Polarisation voltage variably adjustable from 40 to 220 mV | Connector (µA) for double platinum electrodes Polarisation voltage variably adjustable from 40 to 220 mV | Connector (µA) for double platinum electrodes | Connector (µA) for double platinum electrodes Polarisation voltage variably adjustable from 40 to 220 mV |
| Measurement range µA | – | 0 to 100 | 0 to 100 | 0 to 100 | – | 0 to 100 |
| Display resolution µA | – | 0.1 | 0.1 | 0.1 | – | 0.1 |
| Accuracy µA (without sensor probe) | – | 0.2 ± 1 Digit | 0.2 ± 1 Digit | 0.2 ± 1 Digit | – | 0.2 ± 1 Digit |
| Measurement input temperature (2 x 4 mm socket) | – | Connector for Pt 1000 resistance thermometer | Connector for Pt 1000 resistance thermometer | – | – | Connector for Pt 1000 resistance thermometer |
| Measurement range temperature °C | – | -75 to 175 | -75 to 175 | – | – | -75 to 175 |
| Display resolution °C | – | 0.1 | 0.1 | 0.1 | – | 0.1 |
| Accuracy °C (without sensor probe) | – | 0.2 K ± 1 Digit | 0.2 K ± 1 Digit | – | – | 0.2 K ± 1 Digit |
| Display | 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels | 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels | 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels | 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels | 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels | 3.5 inches -1/4 VGA TFT display with 320 x 240 pixels |
| Housing material | Polypropylene | Polypropylene | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| Front keyboard | Polyester coated | Polyester coated | Polyester coated | Polyester coated | Polyester coated | Polyester coated |
| Housing dimensions | 15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit | 15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit | 15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit | 15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit | 15,3 x XX x 29,6 cm (W x H x D) | 15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit |
| Display resolution °C | – | Polypropylene Polypropylene | Polypropylene | – | – | Polypropylene |
| Weight | 2.2 kg for basic unit 3.5 kg for complete device incl. interchangeable unit (with empty reagent bottle, without magnetic stirrer) | 2.3 kg for basic unit 3.5 kg for complete device incl. interchangeable unit (with empty reagent bottle, without magnetic stirrer) | 2.3 kg for basic unit 3.5 kg for complete device incl. interchangeable unit (with empty reagent bottle, without magnetic stirrer) | 2.3 kg for basic unit 3.5 kg for complete device incl. interchangeable unit (with empty reagent bottle, without magnetic stirrer or TM 235 KF) | 2.3 kg for basic unit without magnetic stirrer TM 235 or TM 235 KF | 2.3 kg for basic unit 3.5 kg for complete device incl. interchangeable unit (with empty reagent bottle, without magnetic stirrer or TM 235 KF) |
| Ambient conditions | Ambient temperature: +10 to +40 °C for operation and storage | Ambient temperature: +10 to +40 °C for operation and storage | Ambient temperature: +10 to +40 °C for operation and storage | Ambient temperature: +10 to +40 °C for operation and storage | Ambient temperature: +10 to +40 °C for operation and storage | Ambient temperature: +10 to +40 °C for operation and storage |
| Material: intelligent interchangeable units (5, 10, 20 and 50 ml) | Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®) Hoses: FEP, blue | Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®) Hoses: FEP, blue | Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®) Hoses: FEP, blue | Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®) Hoses: FEP, blue | – | Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®) Hoses: FEP, blue |
| Dosiing accury according DIN EN ISO 8655, part 3 | Accuracy : 0.15 % Precision: 0.05-0.07 % (Depending on the used interchangeable unit) | Accuracy : 0.15 % Precision: 0.05-0.07 % (Depending on the used interchangeable unit) | Accuracy : 0.15 % Precision: 0.05-0.07 % (Depending on the used interchangeable unit) | Accuracy : 0.15 % Precision: 0.05-0.07 % (Depending on the used interchangeable unit) | – | Accuracy : 0.15 % Precision: 0.05-0.07 % (Depending on the used interchangeable unit) |

The right electrode for your titration application

The applicable electrode for the titration application is a decisive factor for the accuracy and reproducibility of the results. In order to support you with selecting the appropriate electrode, we have summarized the according electrodes for the most important applications in the following.



| Application | Electrode (w.o. temp.-sensor) | Electrode with integrated. temp.-sensor |
|---|-------------------------------|---|
| Acid-base-titrations | | |
| Aqueous, general strong acid and bases | A 7780 | A 7780 1M-DIN-ID |
| Kjeldahl | A 7780 | A 7780 1M-DIN-ID |
| Alkalinity | N 62, N 61 | A 162-2M-DIN-ID |
| Aqueous, difficult applications | IL-pH-A120MF IL-pH-A170MF | A 162-2M-DIN-ID |
| Low ionic liquids | IL-pH-A120MF IL-pH-A170MF | A 162-2M-DIN-ID |
| Small sample amounts | N 5900 A | A 157 IL-MICRO-pHT-A-DIN-N |
| Titration with sample changer (100-250 ml vessels) | N 65 | N 1051 A IL-pHT-A170-DIN-N |
| Titration with sample changer (50 ml vessels, micro) | N 5900 A | - |
| Non aqueous acid base-titrations | | |
| TAN (ASTM 664) | N 6480 eth | - |
| OH-No, NCO-No, FFA saponification No. ... | N 6480 eth | - |
| TBN (ISO 3771/ASTM 2896) | N 6480 eis | - |
| Epoxy value | N 6480 eis | - |
| Titration with perchloric acid/acetic acid | N 6480 eis | - |
| Precipitation titrations | | |
| Halogenides (chloride, "salt") | AgCl 62, AgCl 62 RG | - |
| Halogenides, sample changer | AgCl 65, AgCl 62 RG | - |
| Pseudo halogenides (cyanide ...) | Ag 6280 | - |
| Detergents | TEN 1100* | - |
| Redox titrations | | |
| General, iodometric, permanganometric, cerimetric | Pt 62 Pt 6280 | - |
| Iodine number, peroxid number | Pt 61 | - |
| COD | Pt 61 | - |
| Sample changer, general | Pt 6580 | - |
| Sample changer, COD | Pt 5901 | - |
| Dead stop (SO ₂ bromine no. ...) general | Pt 1200 | - |
| Dead stop (SO ₂ bromine no. ...) sample changer, general and titration vessels | Pt 1400 | - |
| Dead stop (SO ₂ bromine no. ...) sample changer micro | KF 1100 | - |
| KF-titrations | KF 1100 | - |
| Complexometric titrations | | |
| Water hardness (Ca/Mg separated) | Ca 1100 A* | - |
| Water hardness, total | Cu 1100 A* | - |
| Copper, zinc, nickel, alumina ... | Cu 1100 A* | - |

* An applicable reference electrode is required: B 2920+ respectively. B 3520+

Ordering information: TITRONIC® 500, TitroLine® 6000/7000/7500 KF/7500 KF trace/7750

| Type-no. | Order no. | Description |
|---------------------|-----------|--|
| T 500-M1 | 285220210 | TITRONIC® 500 basic unit with magnetic stirrer TM 235, with stand rod TZ 1510, electrode clamp Z 305, hand controller TZ 3880, power supply 100-240 V |
| T 500-M2/20 | 285220220 | TITRONIC® 500 basic unit with magnetic stirrer TM 235 and 20 ml exchange unit WA 20, with stand rod TZ 1510, electrode clamp Z 305, hand controller TZ 3880, power supply 100-240 V |
| TL 6000-M1/10 | 285220050 | TitroLine® 6000 basic unit with magnetic stirrer TM 235 and 10 ml exchangeable unit WA 10, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TL 6000-M1/20 | 285220060 | TitroLine® 6000 basic unit with magnetic stirrer TM 235 and 20 ml exchangeable unit WA 20, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TL 6000-M1/50 | 285220070 | TitroLine® 6000 basic unit with magnetic stirrer TM 235 and 50 ml exchangeable unit WA 50, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TL 6000-M2/20 | 285220080 | TitroLine® 6000 basic unit with magnetic stirrer TM 235 and 20 ml exchangeable unit WA 20, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip. With pH-combination electrode and buffer set. |
| TL 6000-M2/50 | 285220090 | TitroLine® 6000 basic unit with magnetic stirrer TM 235 and 50 ml exchangeable unit WA 20, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip. With low maintenance pH-combination electrode A 7780-1M-DIN-ID and buffer set. |
| TL 7000-M1/10 | 285220140 | TitroLine® 7000 basic unit with magnetic stirrer TM 235 and 10 ml exchangeable unit WA 10, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TL 7000-M1/20 | 285220150 | TitroLine® 7000 basic unit with magnetic stirrer TM 235 and 20 ml exchangeable unit WA 20, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TL 7000-M1/50 | 285220160 | TitroLine® 7000 basic unit with magnetic stirrer TM 235 and 50 ml exchangeable unit WA 50, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TL 7000-M2/20 | 285220170 | TitroLine® 7000 basic unit with magnetic stirrer TM 235 and 20 ml exchangeable unit WA 20, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip. With pH-combination electrode and buffer set. |
| TL 7500 KF 05 | 285220810 | Volumetric KF-Titrator, scope of supply: basic titrator unit, exchange unit WA 05, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V |
| TL 7500 KF 10 | 285220820 | Volumetric KF-Titrator, scope of supply: basic titrator unit, exchange unit WA 10, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V |
| TL 7500 KF 20 | 285220830 | volumetric KF-Titrator, scope of supply: basic titrator unit, exchange unit WA 20, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V |
| TL 7500 KF trace M1 | 285220860 | Module 1, coulometric KF-Titrator, scope of supply: basic titrator unit, generator electrode TZ 1752 without junction + connection cable, magnetic stirrer TM 235, stand rod, titration vessel TZ 1751, micro double platinum electrode KF 1150 |
| TL 7500 KF trace M2 | 285220870 | Module 2, coulometric KF-Titrator, scope of supply: basic titrator unit, generator electrode TZ 1752 without junction + connection cable, TM 235 KF titration stand with integrated stirrer and pump, stand rod, titration vessel TZ 1754, micro double platinum electrode KF 1150 |
| TL 7500 KF trace M3 | 285220880 | Module 3, coulometric KF-Titrator, scope of supply: basic titrator unit, generator electrode TZ 1753 with junction + connection cable, magnetic stirrer TM 235, stand rod, titration vessel TZ 1751, micro double platinum electrode KF 1150 |
| TL 7500 KF trace M4 | 285220890 | Module 4, coulometric KF-Titrator, scope of supply: basic titrator unit, generator electrode TZ 1753 with junction + connection cable, TM 235 KF titration stand with integrated stirrer and pump, stand rod, titration vessel TZ 1754, micro double platinum electrode KF 1150 |
| TL 7750 | 285220240 | Basic unit without magnetic stirrer, with stand rod; TZ 1510, electrode clamp Z 305, hand controller TZ 3880, power supply 100-240 V |
| TL 7750-M1 | 285220250 | Basic unit with magnetic stirrer TM 2325, with stand rod; TZ 1510, electrode clamp Z 305, hand controller TZ 3880, power supply 100-240 V |
| TL 7750 KF 05 | 285220930 | TitroLine® 7750 with KF accessories, scope of supply: basic titrator unit, exchange unit WA 05, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V |
| TL 7750 KF 10 | 285220940 | TitroLine® 7750 with KF accessories, scope of supply: basic titrator unit, exchange unit WA 10, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V |
| TL 7750 KF 20 | 285220950 | TitroLine® 7750 with KF accessories, scope of supply: basic titrator unit, exchange unit WA 20, TM 235 KF titration stand with integrated stirrer and pump, titration vessel TZ 1770, micro double platinum electrode KF 1100 and starter kit, power supply 100-240 V |

Accessories for TITRONIC® 500, TitroLine® 6000/7000/7500 KF/7500 KF trace/7750

| Type-no. | Order no. | Description |
|----------------------|-----------|---|
| WA 05 | 285220300 | 5 ml exchangeable unit with integrated chip for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| WA 10 | 285220310 | 10 ml exchangeable unit with integrated chip for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| WA 20 | 285220320 | 20 ml exchangeable unit with integrated chip for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| WA 50 | 285220350 | 50 ml exchangeable unit with integrated chip for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle adapter, tubes, drip tube and titration tip |
| TM 235, 115-230 V | 285220400 | Magnetic stirrer for vessels up to 500 ml, agitator speed infinitely adjustable from 500 - 2000 r/min, for the connection to TitroLine® 6000/7000 and TITRONIC® 500 |
| TM 235 KF, 115-230 V | 285220900 | Titration stand with pump; Scope of delivery: Basic unit with 1 l DURAN®-reagent bottle TZ 1791, 1 l DURAN®-waste bottle TZ 1792, moisture bottle, tubes and screw threads, power supply TZ 1855 (110 to 240 V) |
| TZ 1052 | 285214721 | KF-drying stove, 230 V |
| TZ 1055 | 285215183 | KF-drying stove, 115 V |
| TZ 1060 | 285218115 | Accessories set for KF drying stove TZ 1052/TZ1055 |
| TZ 1065 | 285201973 | Flowmeter with valve and hose connectors for gas volumes (air, nitrogen) from 50 - 500 ml/min. |
| TZ 3863 | 285220480 | USB-thermo printer, 112 mm for TitroLine® 6000/7000/7500 KF/7500 KF trace/7750 and TITRONIC® 500 |
| TZ 3864 | 285220710 | Thermal paper for TZ 3863 with very high durability (5 rolls) |
| TZ 3865 | 285220440 | DIN A4 standard printer, HP PCL-compatible, with USB-connection cable, 230 V |

Software TitrSoft 3.0

| Type-no. | Order no. | Description |
|----------|-----------|---|
| TZ 3071 | 285220717 | Titration software for TitroLine® 7000, TitroLine® 7500 KF/7500 KF trace, TitroLine® 7750 and TitroLine® alpha plus |
| TZ 3072 | 285220727 | Titration software like Version 3.0, but 21 CFR, part 11 compliant version |

Data cable

| Type-no. | Order no. | Description |
|----------|-----------|---|
| TZ 3840 | 285220690 | USB-connection cable type A (M), USB type B (M), 1,8 m |
| TZ 3081 | 1007979 | TW alpha plus, Mettler AB-S, PG - balances, 5 m |
| TZ 3082 | 1007977 | TW alpha plus, Sartorius-balances, 5 m |
| TZ 3087 | 1007976 | TitroLine® 7000, TitroLine® 7750, TITRONIC® 500 or TITRONIC® universal, TW 7400, 1,5 m |
| TZ 3091 | 285223504 | TITRONIC® universal, TITRONIC® 500 TitroLine® easy, TitroLine® 6000, 7000, 7500 KF, 7500 KF trace, PC, 5 m |
| TZ 3092 | 285223529 | TitroLine® 6000,7000, 7500 KF, 7500 KF trace, Sartorius balances |
| TZ 3094 | 285223545 | TITRONIC® universal, TITRONIC® universal, TITRONIC® 500, TITRONIC® 500, TitroLine® 7000, TitroLine® 7000 |
| TZ 3097 | 285223578 | TITRONIC® universal, TITRONIC® 500 TitroLine® easy, TitroLine® 6000, 7000, 7500 KF, 7500 KF trace, PC 1,5 m |
| TZ 3099 | 285223594 | TitroLine® 6000,7000, 7500 KF, 7500 KF trace, Mettler AB-S, PG - balances, 1,5 m |
| TZ 3987 | 285217860 | TitroLine® 7000, TitroLine® 7750, TITRONIC® 500 or TITRONIC® universal, TW 7400, 1,5 m |



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.