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:



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 deviates und a sister humattee and devices such as piston burettes and sample changers

TitroLine[®] 7750 with accessories for KF titration

Storage of results using via USB port (PDF - and CSV -format) including method transfer

With standard methods for potentiometric and KF titration

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

... strong benefits ...

TitriSoft 3.0-convincingly simple ...

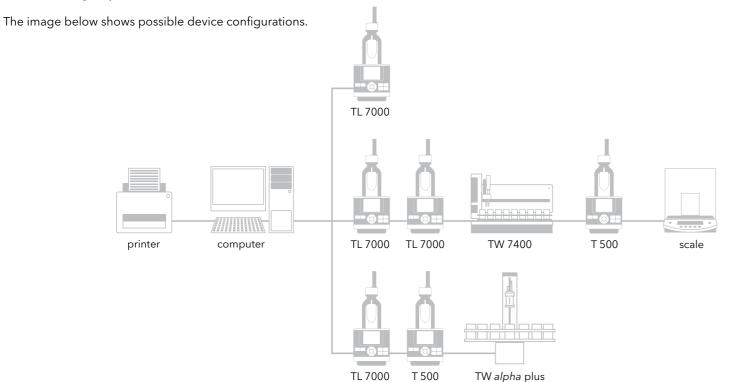
The TitriSoft 3.0 titration software is the optimum solution for your titration tasks. The software can be used with Windows XP, Vista and 7 and supports your daily work procedures during sample preparation, titration and evaluation of the results. The software has been developed to be clear, logical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

Connection possibilities

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

- Titrators (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.



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 RS232interface per configuration

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

Operating system: Windows XP, Vista or 7

RAM: minimum 2 GB

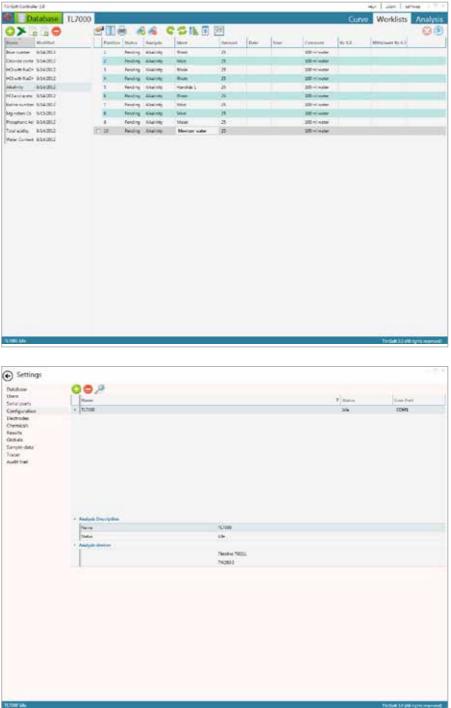
Hard disk:

minimum free storage volume 200 MB

Graphics card:

minimum resolution 1280 x 1024

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>Navigator<, the main menu

The different software tasks are assigned to five different centers:

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

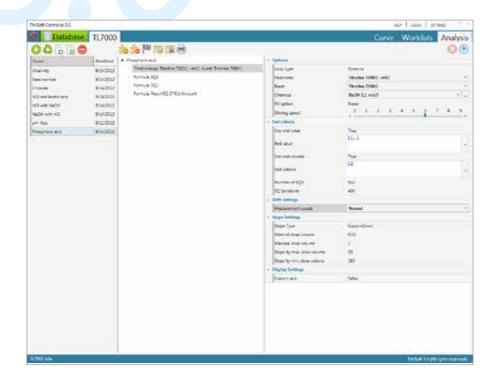
Each of these centers can be chosen at the menu bar.

>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.

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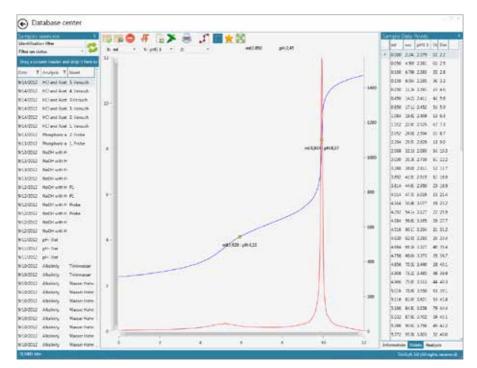
>Worklists<, your clearly structured workplace

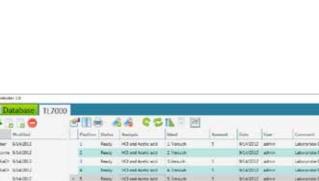
»Worklists« is the place where you carry out your daily jobs, i.e. select methods, enter sample names and origin weighed-in quantities, start the work list and display (and print if desired) the results at the end of a titration. The work list shows the individual samples with the associated methods 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.

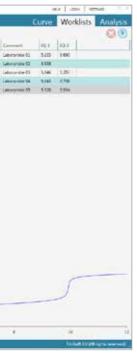
When working with the TW *alpha* plus and TW 7400 sample changer, you can adjust various settings such as skip empty items, rinse and waiting options.

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 printouts 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.





... highly productive: TitriSoft 3.0



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 RS232interface per configuration

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

Operating system: Windows XP, Vista or 7

RAM: minimum 2 GB

Hard disk:

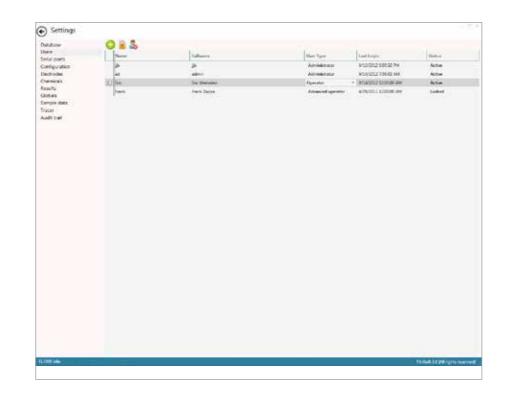
minimum free storage volume 200 MB

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.



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		

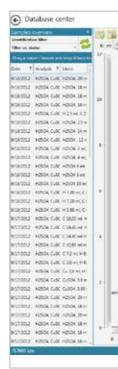
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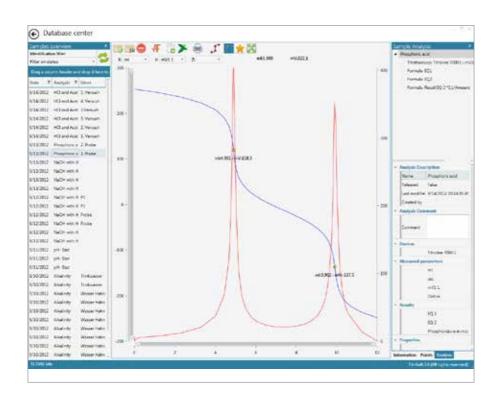
Audit Trail

The 21 CFR Part 11 prescribes that creating methods, modifying passwords or saving results, generates an entry in the Audit Trail. TitriSoft 3.0 P automatically generates an entry in the Audit Trail table as soon as an access to the database has taken place. The local time and the GMT are automatically stored together with this entry in the Audit Trail. Each entry also asks for a comment. The Audit trail or parts of it can be printed out, or a "human" readable digital copy of it, e.g. a PDF file can be generated.

Electronic Signature

Digital analysis results have to be as reliable as classical, manually checked results with a handwritten signature. A digital signature, which is as safe as a handwritten one, can be placed to approve all electronic records. The approver has to enter the name and an additional password. The electronic signature is stored together with the signer's function, the reason of signing and the date and time.

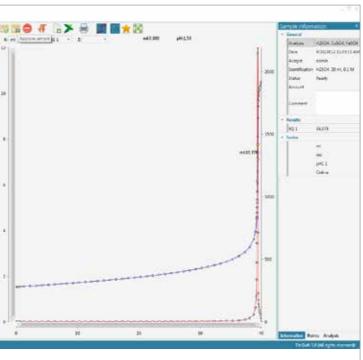




Electronic Records

The 21 CFR Part 11 prescribes how to safeguard and store the generated results over time. Besides regularly making backup copies of the complete database, is it possible to generate readable digital copies of the results, methods, worklists, the Audit Trail, the user administration and the configuration(s). For that purpose, a PDF writer is already integrated in the software. The purchase of expensive third-party software for generating PDF files ist not necessary.

Of course the database is password protected against unauthorized access.





Specifications - Piston burettes TITRONIC® 500 and automatic

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				
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				
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	-				_	

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 <i>trace</i>	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 1 262 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 adjustabl 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	$15.3 \times 45 \times 29.6 \text{ cm}$ (W x H x D), height with interchangeable unit	$15.3 \times 45 \times 29.6 \text{ cm} (W \times H \times D)$, height with interchangeable unit	15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit	$15.3 \times 45 \times 29.6 \text{ cm} (W \times H \times D),$ height with interchangeable unit	15,3 x XX x 29,6 cm (W x H x D)	$15.3 \times 45 \times 29.6 \text{ cm} (W \times H \times D)$, 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 Elect (w.o. temp

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S Analytics

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NODE:

START

ESC

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	-
Titrations 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,	Pt 62	-
permanganometric, cerimetric	Pt 6280	
lodine 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, aluminia	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 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 to 100
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 platinium 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

Order no.	Description
285220300	5 ml exchangeable unit with integrated chip fo adapter, tubes, drip tube and titration tip
285220310	10 ml exchangeable unit with integrated chip f adapter, tubes, drip tube and titration tip
285220320	20 ml exchangeable unit with integrated chip f adapter, tubes, drip tube and titration tip
285220350	50 ml exchangeable unit with integrated chip f adapter, tubes, drip tube and titration tip
285220400	Magnetic stirrer for vessels up to 500 ml, agitat TitroLine® 6000/7000 and TITRONIC® 500
285220900	Titriation stand with pump; Scope of delivery: bottle TZ 1792, moisture bottle, tubes and scre
285214721	KF-drying stove, 230 V
285215183	KF-drying stove, 115 V
285218115	Accessories set for KF drying stove TZ 1052/TZ
285201973	Flowmeter with valve and hose connectors for
285220480	USB-thermo printer, 112 mm for TitroLine® 600
285220710	Thermal paper for TZ 3863 with very high dura
285220440	DIN A4 standard printer, HP PCL-compatible, w
	285220300 285220310 285220320 285220320 285220400 285220400 285214721 285215183 285215183 285218115 285201973 285220480 285220480

Software TitriSoft 3.0

Type-no.	Order no.	Description
TZ 3071	285220717	Titration software for TitroLine® 7000, TitroLine
TZ 3072	285220727	Titration software like Version 3.0, but 21 CFR,

Data cable

Type-no.	Order no.	Description
TZ 3840	285220690	USB-connection cable type A (M), USB type B (M
TZ 3081	1007979	TW alpha <i>plus</i> , Mettler AB-S, PG - balances, 5 m
TZ 3082	1007977	TW alpha <i>plus</i> , Sartorius-balances, 5 m
TZ 3087	1007976	TitroLine® 7000, TitroLine® 7750, TITRONIC® 50
TZ 3091	285223504	TITRONIC [®] universal, TITRONIC [®] 500 TitroLine
TZ 3092	285223529	TitroLine [®] 6000,7000, 7500 KF, 7500 KF trace, 5
TZ 3094	285223545	TITRONIC [®] universal, TITRONIC [®] universal, TIT
TZ 3097	285223578	TITRONIC [®] universal, TITRONIC [®] 500 TitroLine
TZ 3099	285223594	TitroLine [®] 6000,7000, 7500 KF, 7500 KF <i>trace</i> , N
TZ 3987	285217860	TitroLine [®] 7000, TitroLine [®] 7750, TITRONIC [®] 50

for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle

o for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle

o for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle

o for reagent data, with brown glass bottle for titrant, GL 45 and S 40-bottle

ator speed infinitely adjustable from 500 - 2000 r/min, for the connection to

: Basic unit with 1 I DURAN $^{\mbox{\scriptsize @-}}$ reagent bottle TZ 1791, 1 I DURAN $^{\mbox{\scriptsize @-}}$ waste rew threads, power supply TZ 1855 (110 to 240 V)

Z1055

r gas volumes (air, nitrogen) from 50 - 500 ml/min.

000/7000/7500 KF/7500 KF trace/7750 and TITRONIC® 500

rability (5 rolls)

with USB-connection cable, 230 V

ne® 7500 KF/7500 KF trace, TitroLine® 7750 and TitroLine® alpha plus

, part 11 compliant version

(M), 1,8 m

n

500 or TITRONIC[®] universal, TW 7400, 1,5 m

e® easy, TitroLine® 6000, 7000, 7500 KF, 7500 KF trace, PC, 5 m

Sartorius balances

TRONIC® 500, TITRONIC® 500, TitroLine® 7000, TitroLine® 7000

e® easy, TitroLine® 6000, 7000, 7500 KF, 7500 KF trace, PC 1,5 m

, Mettler AB-S, PG - balances, 1,5 m

500 or TITRONIC[®] universal, TW 7400, 1,5 m



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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