The first address for Titration

TitroLine® 6000
TitroLine® 7000
TITRONIC ® 500

www.si-analytics.com

TitroLine® 6000, TitroLine® 7000 and TITRONIC ® 500

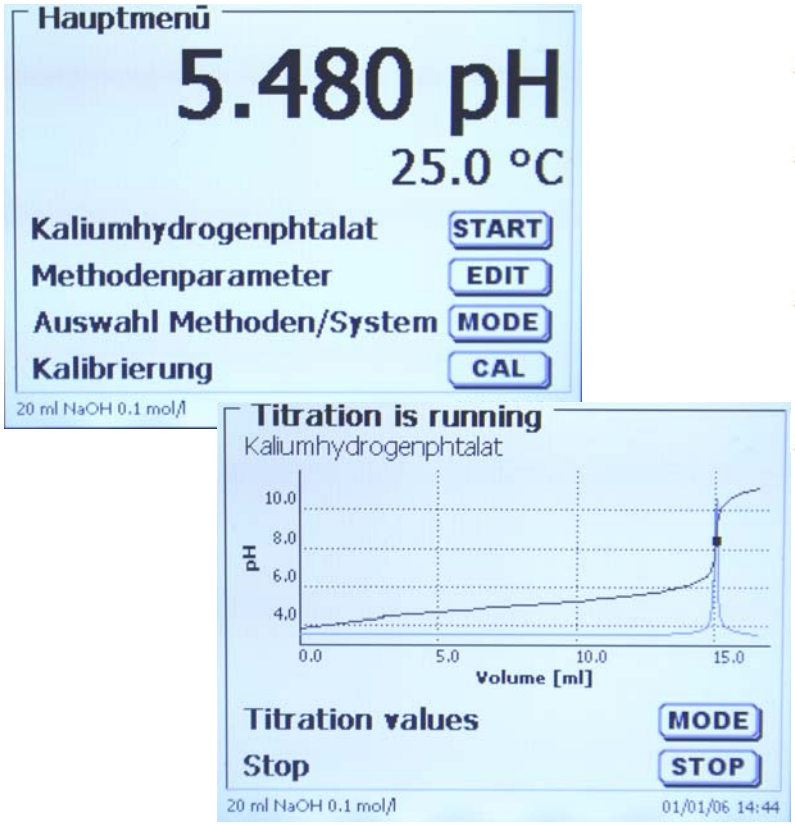
The new titration devices from SI Analytics

TitroLine® 6000, TitroLine® 7000 and TITRONIC ® 500

General Informations

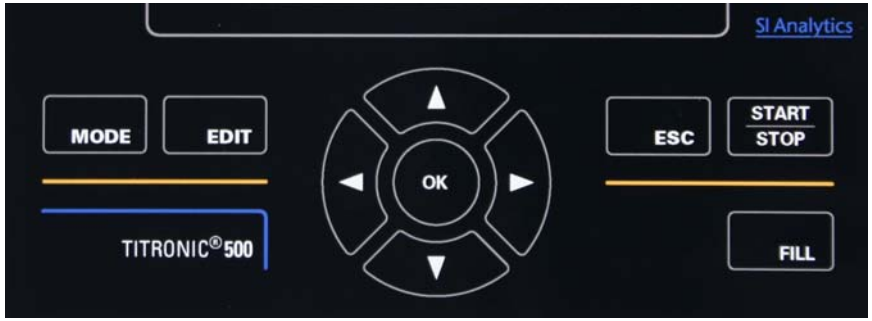
- high contrast display
- touch sensitiv operator panel made out of glass with up to 11 buttons
- new exchangeable, intelligent dosing units
- very communicable due to 3 USB and 2 RS-232 ports
- versatile applicable

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
High Contrast Display



- high contrast graphic display
- allows perfect readout even from the side
- the titration curves are displayed with the 1. derivation
- and the values of the equivalence points are also displayed in the titration curve

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
Touch Sensitiv Operator Panel made out of Glass



- the operator panel of the TitroLine® 6000 and 7000 has 11 buttons
- the 4 arrow keys allows a quick navigation
- the operator panel of the TITRONIC® 500 has 10 buttons

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
New Intelligent Exchange Units

- with a size of 5, 10, 20 and 50 ml
- compact and space-saving
- all relevant reagent- and exhange unit data are stored in the RFID chip:
  - unit size
  - name of reagent
  - concentration of reagent
  - factor of reagent
  - miscellaneous date specifications such as date of production or expiry date of the reagent

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500

Very Communicable

- through 2 USB–A („Master“) and 1 x USB-B („Slave“) - ports
- through additional 2 x RS232-ports
- allows the connection of:
  - USB magnetic stirrer TM 235 and USB hand controller
  - USB printer (HP-PCL a. EPSON POS)
  - USB keyboard
  - USB storage media and USB hub
  - balance and PC
  - and further devices from SI Analytics

TitroLine® 6000
Specific features (Hardware)

- 1 x pH/mV measuring input (DIN/BNC)
- 1 x reference input (1 x 4 mm)
- Dead stop (µA)-measuring input (2 x 4 mm socket)
- Temperature measuring input Pt 1000 (2 x 4 mm socket)

TitroLine® 7000
Specific features (Hardware)

- 1 x pH/mV measuring input (DIN/BNC)
- 1 x reference input (1 x 4 mm)
- Dead stop (µA)-measuring input (2 x 4 mm socket)
- Temperature measuring input Pt 1000 (2 x 4 mm socket)
- wireless sensor recognition for SCHOTT® Instruments ID-sensors

TitroLine® 6000
Specific features (Software)

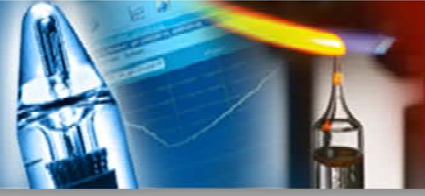
- titration to mV and pH-endpoint (2 EP)
- titration to µA-endpoint (1 EP)
- titration to mV and pH-equivalence point (1 EQ)
- manual titration with hand controller
- dosing tasks
- standard formulae
- > 10 methods

TitroLine® 7000
Specific features (Software)

- titration to mV and pH-endpoint (2 EP)
- titration to µA-endpoint(1 EP)
- titration to mV and pH-equivalence point (2 EQ)
- manual titration with hand controller
- dosing tasks
- standard formulae
- 50 methods
- especially suitable for non aqueous titrations
- pH-stat-titration
- predosing with 1 x connected burette

TITRONIC® 500
Specific features (Software)

- manual titration with Hand controller
- dosing tasks
- standard formulae
- 5 methods
- sample preparation: preparation of solutions

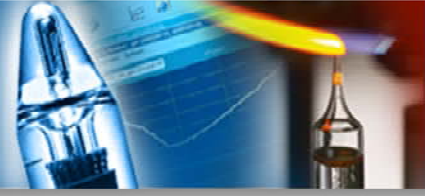


TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
Applications: Analysis of Water - and Waste Water

Application	TITRONIC® 500 (man. titration)	TitroLine® 6000 (man. and autom. titration)	TitroLine® 7000 (man. and autom. titration)
Alkalinity and carbon dioxide (p+m-value)	1)	✔	✔
COD	1)	✔	✔
Permanganate index (oxidation number)	1)	✔	✔
FOS/TAC	1)	✔	✔
Ammonium (after distillation)	1)	✔	✔
Kjeldahl-nitrogen	1)	✔	✔
Chloride in drinking and waste water	1)	✔	✔
Chlorine in drinking water	1)	✔	✔
Calcium- and magnesium hardness (2 equivalence points)	1)	–	✔
Total hardness (Sum Ca/Mg; 1 equivalence point)	1)	✔	✔

1) The applicability of the manual titration have to be checked for individual case
2) Application possible with restrictions. Have to be checked for individual case.

✔ Application possible without restrictions
– Application is not possible



TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
Applications: Foods Analysis

Application	TITRONIC® 500 (man. titration)	TitroLine® 6000 (man. and autom. titration)	TitroLine® 7000 (man. and autom. titration)
Total acidity in wine and beverages	1)	✔	✔
Total acidity in foods (ketchup, mayonnaise, mixed vinegar...)	1)	✔	✔
Ash alkalinity	1)	✔	✔
Chloride ("salt") in foods and mineral water	1)	✔	✔
Sulfurous acid (SO_2), free and total	1)	✔	✔
Volatile Acid	1)	✔	✔
Soxlet Henkel (SH-; acid-) value in milk	1)	✔	✔
Reducing sugar	1)	✔	✔
Ascorbic acid (Vitamin C)	1)	✔	✔

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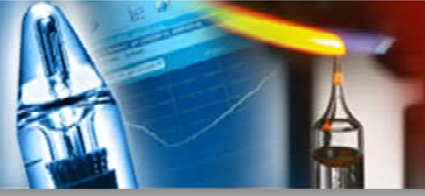

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
Applications: Foods Analysis

Application	TITRONIC® 500 (man. titration)	TitroLine® 6000 (man. and autom. titration)	TitroLine® 7000 (man. and autom. titration)
Calcium in milk and dairy products	1)	✔	✔
Calcium and magnesium in mineral water	1)	–	✔
Formol number	1)	✔	✔
Nitrite content in pickling salt	1)	✔	✔
Iodine number	1)	✔	✔
Peroxide number	1)	✔	✔
Saponification number	1)	✔	✔
Acid number (FFA) in fats and oils	1)	2)	✔

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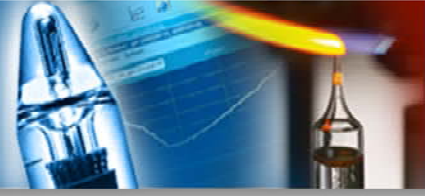

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
Applications: Technical Products

Application	TITRONIC® 500 (man. titration)	TitroLine® 6000 (man. and autom. titration)	TitroLine® 7000 (man. and autom. titration)
Titration of acids and bases (1 equivalence points)	1)	✔	✔
Phosphoric acid (2 equivalence points)	1)	–	✔
Hydroxy number	1)	2)	✔
NCO (isocyanate)-number	1)	2)	✔
Epoxide number	1)	2)	✔
Acid number in resins and other technical products	1)	2)	✔
Acid - and base number in oil (max. 2 equivalence points)	1)	–	✔
Total base number in oil	1)	–	✔

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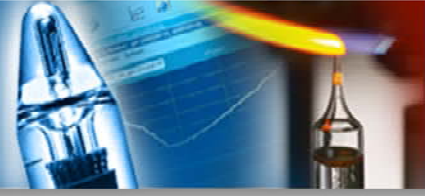

TitroLine® 6000, TitroLine® 7000 und TITRONIC ® 500
Applications: Miscellaneous

Application	TITRONIC® 500 (man. titration)	TitroLine® 6000 (man. and autom. titration)	TitroLine® 7000 (man. and autom. titration)
Detergents	1)	✔	✔
Metals (redox)	1)	✔	✔
Metals (zinc, copper a.s.o.; complexometric)	1)	✔	✔
Perchloric acid titrations (non aqueous titrations)	1)	2)	✔
Gen. potentiometric titration to 1 equivalence point	1)	✔	✔
Gen. potentiometric titration to 2 equivalence points	1)	–	✔

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– Application is not possible