

xylem



# TitroLine® 7800

BROCHURE  
XA00006



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# TitroLine® 7800

## The universal titrator with IDS technology

The TitroLine® 7800 enhances the universal features of the TitroLine® 7750 with an additional IDS measurement input. This enables the TitroLine® 7800 to perform potentiometric titrations with analog or IDS electrodes up to volumetric Karl Fischer titrations.

The IDS measuring input is multifunctional. Digital sensors can be connected for the determination of pH and ORP value, and the conductivity up to the dissolved oxygen.



*TitroLine® 7800 with accessories*

Eliminate the need for special electrodes (e.g. separate indicator, reference and auxiliary electrodes) with the built-in amplifier, ideal for titrations in non-aqueous solvents such as:

- ▲ Acid and base numbers in oils
- ▲ Titrations in glacial acetic acid with perchloric acid
- ▲ Hydroxyl, NCO (Isocyanate) number and further specific values

- ▲ Highly visible full-color display, that can be easily viewed from a distance and extreme angles
- ▲ Includes new interchangeable modules which all relevant reagent and unit data can be stored
- ▲ The 2 x USB-host, 1 x USB-PC and 2 x RS232 ports are very expandable and enables the ability to daisy chain instruments and autosamplers together. Connectable to key pieces like a keyboard, printer, barcode reader, flash drives, balances, and a PC.
- ▲ Stores results via USB port (PDF - and CSV -format) including method transfer
- ▲ Offers second digital measuring port for intelligent digital sensors (IDS)
- ▲ Measures and calibrates at the highest accuracy
- ▲ Wireless sensor recognition automatically recognizes SI Analytics ID and IDS electrodes which instantly sends the specific data to the titrator. Therefore TitroLine® 7800 always uses correct calibration data.
- ▲ Perfect for non-aqueous titrations

Benefits  
TitroLine® 7800

## Ordering Information - TitroLine® 7800

Type No.	Order No.	Description
TitroLine® 7800	285230540	TitroLine® 7800 basic unit with two measuring inputs, one analog and one digital (IDS) measuring input
TitroLine® 7800	285230550	TitroLine® 7800 basic unit with two measuring inputs, one analog and one digital (IDS) measuring input, with magnetic stirrer TM 235




Electrodes, exchangeable units and further accessories must be ordered separately

# Specifications - TitroLine® 7800

Features	
Display	Color graphics 3.5 in -1/4 VGA TFT display with 320x240 pixels
Measurement input 1 (analog) 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 RFID receiver for SI Analytics ID electrodes
Measurement range pH/mV	- 3.0 ... 18.00 / - 2000 ... 2000
Display resolution pH/mV	0.0001 pH / 0.1 mV (+/-) 1 digit
Accuracy pH/mV (without sensor)	0.002 pH / 0.1 mV (+/-) 1 digit
Measurement input 2 (IDS) pH range mV range Temperature °C range Conductivity range	Accuracy (+/-) 1 digit depending on the IDS used 0.000 to 14 (+/-) 0.004 pH (+/-) 1200.0 mV (+/-) 0.2 mV -5.0 - 105.0 °C (+/-) 0.2 °C 0.00 - 2000 mS/cm (+/-) 0.5% v. Mw.
Calibration pH (analogue and IDS)	2 or 3 - point calibration with DIN/NIST or technical buffers Own buffers can be programmed.
Calibration conductivity (IDS)	1 point with 0.01 mol/l KCl
Temperature compensation conductivity (IDS)	Automatic/manual nLF non-linear function natural waters according to EN 27888 and ultra-pure water function, linear compensation from 0.000... 10.000 %/K
Measurement input dead stop (2 x 4 mm socket)	Connector (µA) for double platinum electrodes Polarization voltage variably adjustable 40 ... 220 mV
Measurement range µA Display resolution µA Accuracy µA (without sensor):	0 ... 100 0.1 0.2 ± 1 digit
Measurement input temperature (2 x 4 mm socket) Measurement range temperature °C Display resolution ° Accuracy °C (without sensor)	Connector for Pt 1000 / MTC 30 kOhm Pt 1000: -75 to 195 / NTC 30 kOhm: -40 to 125 °C 0.1 / 1.0 K (-40-0 °C) 0.2 K ± 1 digit/0.3 K (0-125 °C) ± 1 digit
Interfaces	1 x LAN, 2 x USB-A, 1 x USB-B 2 x RS 232
Balance connection	RS 232
Printer (USB-A)	HP PCL, Seiko DPU S445, PDF
Housing material	Polypropylene
Front keyboard	Polyester coated
Housing dimensions	15.3 x 45 x 29.6 cm (W x H x D), height with interchangeable unit
Weight	2.3 kg for basic unit, 3.5 kg for complete device incl. interchangeable unit (with empty reagent bottle, without magnetic stirrer)
Ambient conditions	Ambient temperature: + 10 ... + 40 °C for operation and storage
Intelligent interchangeable modules (5, 10, 20 and 50 mL)	Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®); Hoses FEP, blue
Burette resolution (steps)	20,000
Dosing accuracy According to DIN EN ISO 8655, part 3	Accuracy : >0.15 % Precision: >0.05 - 0.07 % (Depending on the used interchangeable unit)



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