

xylem



TitroLine® 7000

BROCHURE
XA00008



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TitroLine® 7000

The Professional Step

With its performance spectrum, the TitroLine® 7000 is the ideal starting device for potentiometric titration with potential for expansion and automation. It is possible to determine a wide range of parameters quickly and accurately due to the high-resolution measuring interface providing precise pH/mV and "dead-stop" results.

▶ More methods

As a rule, 10-15 user methods are usually enough for most requirements, but sometimes you need a little more capacity. The TitroLine® 7000 offers storages up to 50 user methods.

▶ Measurement and calibration with the highest accuracy

The wireless sensor recognition automatically recognizes SI Analytics® ID electrodes and instantly stores dedicated sensor data, eliminating measurement and calibration errors.



Features of the TitroLine® 7000 include:

- ▲ High resolution pH/mV-electrode and temperature inputs for pH, ISE, redox (ORP) or photometric titrations
- ▲ Polarizable electrode input for set endpoint titrations ("dead-stop")
- ▲ Linear (fixed increment) and dynamic equivalence point titration mode
- ▲ Titration to pH/mV and μA -endpoint
- ▲ Manual titration mode and routine dosing tasks are also available

Features
TitroLine® 7000

Ordering Information - TitroLine® 7000

Type No.	Order No.	Description
TL 7000 YSI M1	285230230	TL 7000 YSI M1 Autotitrator basic unit with magnetic stirrer TM 235, with stand rod and titration clamp Z 305, power supply 100-240 V
TL 7000 YSI M1/10	285230240	TL 7000 YSI M1/10 Autotitrator 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 YSI M1/20	285230250	TL 7000 YSI M1/20 Autotitrator 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 YSI M1/50	285230260	TL 7000 YSI M1/50 Autotitrator 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 YSI M2/20	285230270	TL 7000 YSI M2/20 Autotitrator 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 7000 YSI w/ Titrisoft (non CFR)	285230280	TL 7000 YSI w/ Titrisoft Autotitrator basic unit with magnetic stirrer TM 235, with stand rod and titration clamp Z 305, power supply 100-240 V, software TitriSoft 3.3 (TZ 3071 non CFR)

Electrodes, exchangeable units and further accessories must be ordered separately

Specifications - TitroLine® 7000

	Features
Display	3.5 in -1/4 VGA TFT display with 320x240 pixels
Number of user methods	50
Burette resolution (steps)	20,000
Titration to mV and pH endpoints	2 EP
Dynamic and linear titration to inflection points (EQ) mV and pH	2 EQ
Measuring 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
Measuring range pH	-3.0 to 18
Display resolution / Accuracy pH (without sensor probe)	0.001 / 0.002 ± 1 Digit
Measuring range mV	-2000 to 2000
Display resolution / Accuracy mV (without sensor probe)	0.1 / 0.1 ± 1 Digit
Measurement input dead stop (2 x 4 mm socket)	Connector (µA) for double platinum electrodes Polarisation voltage adjustable from 40 to 220 mV
Display resolution/ Accuracy µA (without sensor)	0.1 / 0.2 ± 1 digit
Measuring input temperature (2 x 4 mm socket)	Connector for Pt 1000 / NTC 30kΩ
Measuring range temperature °C	Pt 1000: - 75 to 195 / NTC 30kΩ -40...125 °C
Display resolution °C / Accuracy °C (without sensor probe)	0.1 / Pt 1000: 0.2 K ± 1 Digit NTC 30kΩ: 1.0 K (-40...0 °C)/0.3 K (0...125 °C) ± 1 Digit
Interfaces	1 x LAN, 2 x USB-A, 1 x USB-B, 2 x RS232
Balance connection	RS232
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
Ambient conditions	Ambient temperature: + 10 to + 40 °C for operation and storage
Weight	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)
Intelligent interchangeable modules (5, 10, 20, and 50 ml) material	Valve: PTFE/ETFE Cylinder: borosilicate glass 3.3 (DURAN®); Hoses: FEP, blue
Dosing accuracy according ISO 8655, part 3	Accuracy : 0.15 % Precision: 0.05 - 0.07 % (Depending on the used interchangeable unit)

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