



AT1000 Potentiometric Titrator with 1 Burette - Model AT1102

Product #:

AT1102.97

ZAR Price:

Contact Hach

No availability shown

Simply add your sample, press the button and read your titration results

Simplify complex titration with the Titrabest AT1000 from Hach. Straight from the box the AT1000 eliminates operator interpretation and manual processes you have come to expect with existing manual titration. The automatic system gives you more reliable results without complicated analysis. To make setup and titration simple, the AT1000 utilizes application specific kits to make it quick and easy for anyone to set up and operate a test.

Accurate and Reliable Titration Results

- Eliminates errors in manual processes and operator interpretation
- Pre-programmed titration methods automatically detect endpoints and perform calculations
- High resolution electronic burette with 20,000 steps
- High performance probes for reliable measurements

Easy to Use for all Operators

- Press one button to get the correct result
- Operators of all skill levels can get accurate measurements
- No need for custom programming with Hach's unique application specific routines
- Simple user interface with large color display that shows the titration curve as it is measuring
- USB ports to quickly and easily capture data to a PC and attach optional keyboard/mouse or printer

Low Cost of Ownership

- Reduces the amount of reagent used for every titration cutting cost of ownership month after month
- Increases lab throughput by allowing operator to prepare next sample while titrator performs measurement
- Adding an AS1000 sample changer allows the operator to load multiple samples and come back for results later

Improves Lab Safety

- Minimizes direct contact with reagents
- No need for potentially dangerous colored indicators
- Instrument can be easily and safely moved thanks to the compact design

Low Maintenance

- Reliable design significantly reduces downtime

- Extended periods between maintenance routines
- Maintenance is simple and easy to perform

Specifications

Accessories:	Supported peripherals: printer, PC software, balance, sample changer, keyboard, mouse, barcode reader, sampling pump, propeller stirrer
Application:	5
Automatic Reagent Addition(s):	Integrated peristaltic pumps for reagent addition
Beaker Volumes Accepted:	System specific beakers: Polypropylene, 50 mL & 150 mL with clips Generic beakers supported: Up to 250 mL low form glass
Burette:	1
Burette motor resolution:	20,000 steps with electronic μ stepping technology (128 μ steps/step)
Burette: Volumes Available:	2.5/5/10/25 mL, ISO8655-3
Calibration:	Electrode & titrant (up to 5 buffers in Auto Mode, fixed & user defined)
Calibration curves display:	Direct & derivative titration curves, electrode calibration curve
Calibration Intervals/Alerts/Reminder:	Yes, user defined period
Certifications:	Safety IEC/EN 61010-1; EMC IEC/EN 61326-1
Data Export:	On USB flash drive, CSV format, Excel compatible
Data Memory:	Last 100 samples, QC & blank analyses, last 10 calibrations
Data storage:	Date, Time, Operator IDs, Sample IDs
Display Type:	5,7"; Graphic color; VGA
Electrode:	Intellical ("Plug & Play" digital), analogue, photolorimetric; 2 inputs available
Embedded procedures:	Tubing bubble purging, reagent priming, burette and pump replacement
Installation category:	Category II
Languages user interface:	English, German, French, Italian, Spanish
Maintenance scheduler:	Yes, user defined
Material Enclosures:	PP Latene, silicone, hardened glass, POM, stainless steel
Measurement method:	Potentiometric (zero & imposed current), amperometric, colorimetric
Model:	AT1102
Operating conditions:	15 - 35 °C (59 - 95 °F), 20 - 80 % RH, non-condensing
Operating Humidity:	20 - 80 % (non-condensing)
Operating Interface:	Soft keypad (silicone)
Operating temperature range:	15 - 35 °C (59 - 95 °F)
Outputs:	Electrode ports (x2), USB (x2), Serial (x1), Ethernet (x1)
Parameter:	mV/pH, Conductivity, Temperature
Password Protection:	Yes, user defined protected elements
Pollution Degree:	2
Power requirements (Hz):	50/60 Hz
Power requirements (Voltage):	100/240 VAC
Pump flow rate:	100 mL/min
Pumps:	0
Reading Modes:	End Point, Inflection Point - sample, blank, sample with blank, QC sample, QC sample with blank
Required Application Package/s:	AP0001.AT1102 pH & Alkalinity in Water

	AP0006.AT1102 Volatile Acids & Alkalinity (Biogas)
	AP0008.AT1102 pH, Total Acidity (Milk, Tomato Sauce, & Fruit Juice)
	AP0015.AT1102 TAN
	AP0016.AT1102 TBN
Resolution:	mV/pH: ± 0.1 mV / ± 0.001 pH
Sample Stand:	Integrated, magnetic stirring, beakers up to 250 mL
Storage conditions:	-5 - 40 °C
Supported Peripherals:	Printer, PC software, balance, sample changer, keyboard, mouse, barcode reader, sampling pump, propeller stirrer
Titration modes:	Sample, blank, sample with blank, QC sample, QC sample with blank
Titration types:	Potentiometric (zero & imposed current), amperometric, colorimetric
Warranty:	12 months
Weight:	4 kg
What's included?:	1 ea. AT1102-Titralab AT1000 Titrator
	1 ea. LZE144- Power Supply
	1 ea. LZE141- 4 position tube holder
	1 ea. LZE185- Electrode Storage Tube
	1 ea. Basic User Manual
	Sold Separately: Don't forget to order your Application Pack and Reagents and consider purchasing an AS1000 Sample Changer.

What's included?

1 ea. AT1102-Titralab AT1000 Titrator 1 ea. LZE144- Power Supply 1 ea. LZE141- 4 position tube holder 1 ea. LZE185- Electrode Storage Tube 1 ea. Basic User Manual
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Required Accessories

- Titration Application Pack Petrochemistry: TAN (Total Acid Number) (Item AP0015.AT1102)
- Titration Application Pack Petrochemistry: TBN (Total Base Number) (Item AP0016.AT1102)
- Titration Application Pack Petrochemistry: Bromine Number (Item AP0018.AT1102)
- Titration Application Pack Food & Beverage: pH & Total Acidity (Milk, Tomato Sauce, Fruit Juice) (Item AP0008.AT1102)
- Titration Application Pack Biogas: FOS/TAK (Item AP0006.AT1102)
- Titration Application Pack Water: pH & Alkalinity (Item AP0001.AT1102)
- Titration Application Pack Water: pH, Alkalinity & Conductivity (Item AP0002.AT1102)
- Titration Application Pack Beverage: pH, Total Acidity in Beer, Kombucha, Soft Drink/Juice/Energy Drink Bottlers, Single 25 mL (Item AP0025.AT1102)