



## **AT1000 Potentiometric Titrator with 1 Burette and 1 Pump - Model AT1112**

**Product #:** AT1112.97  
**ZAR Price:** Contact Hach  
**No availability shown**

### **Add your sample, press the button and simply read your titration results**

Simplify complex titration with the Titrilab 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
- Automatic sample preparation using embedded peristaltic pump
- 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
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**Specifications**

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 $\mu$ stepping technology (128 $\mu$ steps/step)
Burette: Volumes Available:	2.5/5/10/25 mL, ISO8655-3
Calibration curves display:	Direct & derivative titration curves, electrode calibration curve
Calibration Intervals/Alerts/Reminder:	Yes, user defined period
Data storage:	Date, Time, Operator IDs, Sample IDs
Display Type:	5,7"; Graphic colour; VGA
Embedded procedures:	Tubing bubble purging, reagent priming, burette and pump replacement
Languages user interface:	English, German, French, Italian, Spanish
Maintenance scheduler:	Yes, user defined
Measurement method:	Potentiometric (zero & imposed current), amperometric, colorimetric
Model:	AT1112
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 (°C or °F)
Pollution Degree:	2
Power requirements (Hz):	50/60 Hz
Power requirements (Voltage):	100/240 VAC
Pumps:	1
Required Application Package/s:	AP0003.AT1112 Ca & Mg Hardness in water  AP0010.AT1112 Salt in food products
Resolution:	Temperature: $\pm$ 0.3 °C
Storage conditions:	-5 - 40 °C
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. AT1112-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.

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## Required Accessories

- Titration Application Pack Petrochemistry: R-SH (Thiol) (Item AP0017.AT1112)
- Titration Application Pack Water: Chlorides (Item AP0009.AT1112)
- Titration Application Pack Food & Beverage: Salt (Item AP0010.AT1112)
- Titration Application Pack Water: Total Hardness (Colour) (Item AP0004.AT1112)
- Titration Application Pack Water: Ca & Mg Hardness (ISE) (Item AP0003.AT1112)
- Titration Application Pack Beverage: pH, Total Acidity in Beer, Kombucha, Soft Drink/Juice/Energy Drink Bottlers, Single 25 mL (Item AP0025.AT1102)