



## AT1000 Series Potentiometric Titrator with 1 Burette and 2 Pumps - Model AT1122

**Product #:** AT1122.98  
**AED Price:** Contact Hach  
**Call for ship date**

### Automatic titration without all the complications

Simplify complex titration with the Titrator 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.

#### Reliable titration results

Eliminates operator interpretation and manual processes with automatic titration to quickly deliver accurate and repeatable results.

Pre-programmed titration methods detect end points and eliminate manual calculations to make results easier to achieve without advanced programming.

#### Simple setup and titration

Application-specific functions to eliminate complex titration setup and analysis.

Hach's unique application kits make it quick for anyone to set up and operate a test.

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### Specifications

Application:	5
Automatic reagent addition:	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 for Titrant:	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:	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 logger:	On USB flash drive, CSV format, Excel compatible
Data storage:	Date, Time, Operator IDs, Sample IDs
Display type:	5,7"; Graphic colour; VGA

Electrode:	INTELLICAL ("Plug & Play" digital), analogue, photocolorimetric; 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:	Latene (PP), silicone, hardened glass, POM, stainless steel
Measurement method:	Potentiometric (zero & imposed current), amperometric, colorimetric
Model:	AT1122
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)
Output:	Electrode ports (x2), USB (x2), Serial (x1), Ethernet (x1)
Parameter:	mV/pH, Conductivity, Temperature (°C or °F)
Password Protection:	Yes, user defined protected elements
Pollution degree:	2
Power requirements (Hz):	50/60 Hz
Power requirements (Voltage):	100/240 V AC
Pump flow rate:	100 mL/min
Pumps:	2
Required Application Package/s:	AP0007.AT1122  AP0012.AT1122
Resolution:	Conductivity: ±0.5 % of reading
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:	24 months
Weight:	4 kg
What's included?:	1 ea. AT1122-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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## What's included?

1 ea. AT1122-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 ManualSold 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 Food & Beverage: Free & Total  $\text{SO}_2$  in wine (Item AP0012.AT1122)
- Titration Application Pack Amperometric: Free & Total Chlorine, Chlorine Dioxide, Chlorite, & Sulfite (Autocat) (Item AP0007.AT1122)