TitraLab® AT1000 SERIES AUTOMATIC TITRATORS



Applications

- Drinking Water
- Wastewater
- Food and Beverage
- Petrochemical Industry

Automatic titration without all the complications.

Titration can be easy. The TitraLab AT1000 from Hach uses pre-set functions that eliminate complex programming and provide accurate results.

The Karl Fischer version TitraLab KF1000 requires only small sample quantities to deliver accurate and precise results for water content applications.

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.



Technical Data*

Titration Types Potentiometric (zero & imposed current), amperometric, colorimetric **Titration Modes** Sample, blank, sample with blank, QC sample, QC sample with blank **Parameter** mV/pH, Conductivity, Temperature Resolution $mV/pH: \pm 0.1 \ mV / \pm 0.001 \ pH$ Conductivity: ±0.5 % of reading Temperature: ±0.3 °C / ±0.51 °F Integrated, magnetic stirring, Sample Stand beakers up to 250 mL **Electrode** IntelliCAL ("Plug & Play" digital), analog, photocolorimetric; 2 inputs available **Burette: Volumes** 2.5/5/10/25 mL. ISO8655-3 **Available Burette Motor** 20,000 steps with electronic Resolution ustepping technology (128 usteps/step) Calibration Titrant & electrode (up to 5 buffers in Auto Mode, fixed & user defined) Calibration Intervals/ Yes, user defined period Alerts/Reminder **Data Memory** Last 100 samples, QC & blank analyses, last 10 calibrations On USB flash drive, CSV format, **Data Export** Excel compatible **Operating Interface** Soft keypad (silicone) 5,7"; Graphic color; VGA **Display Type Calibration Curves** Direct & derivative titration curves,

Accessories Supported peripherals: printer, PC software, balance, sample changer, keyboard, mouse, barcode reader, sampling pump, propeller stirrer Date, Time, Operator IDs, **Data Storage** Sample IDs Maintenance Yes, user defined Scheduler **Embedded Procedures** Tubing bubble purging, reagent priming, burette and pump replacement **Password Protection** Yes, user defined Languages English, German, French, Italian, Spanish Output Electrode ports (x2), USB (x2), serial (x1), Ethernet (x1) **Dimensions Metric** 220 mm x 400 mm x 360 mm (H x W X D) Weight 8.82 lbs. (4 kg) **Material Enclosures** PP Latene, silicone, hardened glass, POM, stainless steel. Splashproof design.

Power Requirements (Voltage)

Power Requirements

(Hz)

Operating Conditions

Storage Conditions
Certifications

nditions 15 to 35 °C (59 to 95 °F), 20 to 80 % RH, non-condensing

-5 to 40 °C (23 to 104 °F) Safety IEC/EN 61010-1; EMC IEC/EN 61326-1

1 voor

100/240 VAC

50/60 Hz

Warranty 1 year

*Subject to change without notice.



electrode calibration curve

Robust and intuitive user interface



Application software delivered on USB key

Display

AT1000 / KF1000 Series Titrator Models

	Titrator Models	AT1102	AT1112	AT1122	AT1222	KF1121
	Burette for Titrant	1	1	1	2	1
	Integrated Peristaltic Pump	0	1	2	2	2
	Maximum Number of Applications	5	5	5	10	5
Water Applications						
AP0001.AT1102	pH/Alkalinity in Water					-
AP0002.AT1102	pH/Alkalinity & Conductivity in Water					-
AP0003.AT1112	Ca & Mg Hardness (ISE) in Water	-				-
AP0004.AT1112	Total Hardness (Color) in Water	-				-
AP0005.AT1222	pH/Alkalinity & Hardness (ISE) in Water	-	-	-		-
AP0009.AT1112	Chlorides in Water	-				-
Food and Beverage Applications						
AP0008.AT1102	pH, Total Acidity in Food & Beverage					-
AP0010.AT1112	Salt in Food Products	-				-
AP0011.AT1222	pH, Total Acidity & Chlorides in Food & Beverage	-	-	-		-
AP0012.AT1122	Free & Total SO ₂ in Wine	-	-			-
AP0013.AT1222	pH, Total Acidity, Free & Total SO ₂ in Wine	-	-	-	•	-
Petrochemical Applications						
AP0015.AT1102	TAN (Total Acid Number) in Petrochem					-
AP0016.AT1102	TBN (Total Base Number) in Petrochem	-		•		-
AP0017.AT1112	R-SH (Thiol) in Petrochem	-				-
AP0018.AT1102	Br ₂ /l ₂ Index in Petrochem					-
Environmental A	pplications					
AP0006.AT1102	FOS/TAK (Biogas)					-
AP0007.AT1122	Free & Total Chlorine, Chlorine Dioxide, Sulphite (AutoCAT)	-	-	•	•	-
Moisture Content Application (Karl Fischer)						
AP0014.KF1121	Moisture Content (Karl Fischer)	-	-	-	-	

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Order Information

Instruments

AT1102.97 TitraLab[®] AT1000 Series Potentiometric Titrator,

1 Burette

AT1112.97 TitraLab® AT1000 Series Potentiometric Titrator, 1 Burette,

1 Pump

AT1122.97 TitraLab® AT1000 Series Potentiometric Titrator, 1 Burette,

2 Pumps

AT1222.97 TitraLab[®] AT1000 Series Potentiometric Titrator, 2 Burettes,

2 Pumps

KF1121.97 TitraLab[®] KF1000 Series Volumetric Karl Fischer Titrator,

1 Burette, 2 Pumps



LQV161.99.10000 DPU-S445 USB Thermal printer kit

LZE127 TitraMaster 1000 Series, PC software with Ethernet cable

LZE142 External pump (sample leveling), for AT Titrator **LZE143** Propeller stirrer, 70 mm shaft, for AT Titrator

Service Options

BSPAT1000 Automatic Titrator TitraLab[®] AT1000 Bench Service Partnership BSPPLUSAT1000 Automatic Titrator TitraLab[®] AT1000 Bench Service Partnership

Plus (Field PM, Bench repair)

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