

# PERSONAL COMPUTER CONTROLLED AUTO TITRATOR MODEL HP-77



## FEATURES:

1. Laptop or Table Top Computer Connectivity.
2. Windows XP operations.
3. RS 232 / Serial Port Connection.
4. Menu Driven Software for Data Collection, reprocessing, titrator operations and Data Print Out.

## TYPES OF TITRATION:

- a. POTENTIOMETRY (ARGENTOMETRY AND COMPLEXOMETRY):
  - o pH / mV Titrations – Aqueous and Non-Aqueous.  
Tetrabutyl Ammonium Hydroxide and Perchloric Acid.  
Antibiotics Titrations : Amoxicillin, Ampicillin, etc.
  - o Redox Titrations.
  - o Specific Ion Titrations - Chloride, Cyanide, Bromide and Iodide (Argentometry)
  - o EDTA for Metal Ions evaluation (Complexometry)
  - o Silver and Silver Alloy Assaying.

## AMPEROMETRY

- o Karl Fischer Titrations (Moisture Estimation).
- o Sulpha Drugs Titrations (Sodium Nitrite Titrations) etc.
- o Iodometric Titrations.



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## SPECIFICATIONS\*:

Display (On Computer Monitor)	:	a. Method Parameters entry and editing. b. Titration 'S' curve, First Derivative curve and results. c. On-line Titration status – Volume titrated, Valve status, mV of the reactant
Software Operation	:	Menu driven, user friendly, self-explanatory parameters with user selectable different calculations to suit specific requirements.
Data Entry	:	Menu Driven Parameters.
Data Storage	:	Unlimited number of titration methods, Titrations curves, Data and Report on Computer Hard disk.
Data Reprocessing	:	Stored Data can be retrieved and reprocessed at ease.
Dimensions	:	
Weight (appx.)	:	

## TITRATIONS CONDITIONS:

Max Volume	:	Upto 1000 mL (999.999 mL)
End Point Setting	:	To stop titration on attaining the set value (pH or mV).
Range	:	0 to 14 pH or +2000 mV to – 2000 mV. Increasing or decreasing pH or mV.
Min. Dosing Volume	:	0.001 mL / step (1 microlitre)
Pre-Dose Volume	:	0 - 99 mL. This reduces the time for large volume titrations.
Titration Speed	:	1 mL/min to 16mL/min.
Stir Time	:	Stirring time before start of titration - 99 secs to ensure homogeneity by complete dissolution of Sample.
Result	:	User Selectable calculation methods.
Calibration	:	pH Electrode and Burette calibration for perfect volume dispensing. Burette Calibration and correction through Software

## BURETTE:

Nominal Volume	:	20 mL
Resolution	:	0.001 mL
Accuracy	:	Better than 0.5%
Material	:	Glass body with Teflon piston
Filling Time	:	Less than one minute for 20 mL
Delivery Time	:	1 to 20 mL/min user selectable

## TITRATION ASSEMBLY:

- Polypropylene titration assembly to hold Titration vessel 150 mL capacity, Glass and Polymer
- Direction Selection Valve – 2 Way Automatic valve control through PC
- Stirring : Variable speed Teflon Rod Stirrer for Potentiometric titration  
Electronically regulated Magnetic Stirrer for KarlFischer Titration
- Wetted Parts : Teflon, Glass, Polypropylene and Polyethylene
- Interface : Comport / Serial Port, can be used on Laptop,
- Power Supply 230V 50Hz ±5%
- Electrode – 9 pin D Type
- Computer – Pentium IV or higher version