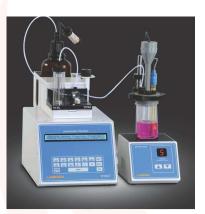
## PHOENIX INDIA SOLUTIONS

## POTENTIOMETRIC TITRATOR



Potentiometric Titrator Titra+ comes with quick interchangeable imported burette assemblies with intelligent recognition for its volume size.

This potentiometric autotitrator is perfect for all types of industrial applications.

The Titra+ has composite differential electrode amplifier unit for potentiometric and voltametric/Karl Fisher titration having connectivity to various electrodes.

Three standard modes of titration namely incremental, equilibrium and cut-off mode is provided to perform all types of titrations. There is a real time clock for time display and report printout with run time indication. With a balance interface to directly transfer the weight. 50 methods can be stored and report of method parameter can be printed in Titra+.

## **FEATURES:**

- 1) Imported burette assembly of various sizes (5/10/25 ml) with NIST traceability.
- 2) Perform all types of titrations including Acid- Base, Non-aq, Redox, Complexometric, Precipitation as well as pH STAT Titrations.
- 3) Storage Facility for 50 methods.
- 4) **GLP compliant printouts** of results, data table, graphs etc. with alphanumeric entries of sample name, titrant name, identification no. & date for report authentication.
- 5) Auto calculation of results in various selectable units.
- 6) Can be used as a simple pH meter with display of pH, mV and temperature values.
- 7) PC Compatibility Software & built in balance interface.
- 8) Two-tier password facility (admin and user) to protect stored methods from any misuse or unwanted change.
- 9) Complies with USP/BP/JP/EP/IP/ASTM standards.
- 10) Quick & easy interchangeability from titration mode to Karl Fischer titration mode.

## **SPECIFICATIONS:**

- 1) Control: Micro-controller based (Advanced version of microprocessor)
- 2) mV Range: ± 3200 mV
- 3) Accuracy: ±0.1mV (±0.0016 pH)
- 4) Amplifier Input Impedance: > 10"12 ohms
  5) Burette Resolution: 1/20000 for 10 ml volume
  6) Burette Volume: 5 ml, 10 ml & 25 ml available
- 7) Filling Time: <20 sec
- 8) **Keyboard:** Alphanumeric splash waterproof polyester soft keys
- 9) **Display:** 40 x 2 line back lighted liquid crystal display (LCD)
- 10) **Stirring System:** Microcontroller based variable speed, high torque vortex stirrer with digital indication. Magnetic Stirrer optional.
- 11) **Sensors**: (1) Electrodes for Potentiometric titration {pH, Ion, Redox, Argentometric). a) Any combination electrode. b) Differential Electrode System comprising sensing (Indicator) Electrode with BNC Connector and Reference Electrode with 4mm Banana Connector. (2) Electrode for KFNoltametric titration with BNC/TNC Connectors. (3) Temperature sensor (PRT/PT100)
- 12) Calibration: 3-point Calibration with user entered buffer values and standardisation with 7 pH buffer
- 13) End Point Detection: a) Potentiometric, b) Voltametric, c) Thermometric and Photometric.
- 14) Cut-off-criteria: a) Volume b) End point c) mV/pH
- 15) **Results:** a) Molarity b) % Assay (wt) c) % volume (ml) d) ppm e) mg/l ijmg/g g) g/l h) meq/l l) moVkg j) TAN and TBN for oil samples.
- 16) Input/Output Peripheral Interface:
- a) Parallel Port :1No. for printer
- b) Serial Port : 2 Nos. for Balance & PC 17) **Power:** 230 V AC ± 10%, 50 Hz.