



FLASH AUTOMATIC TITRATOR

Flash automatic titrator has been designed to simply and precisely satisfy and perform the widest range of potentiometric titrations.

Up to two automatic burettes for titrant delivery and three peristaltic pumps can be installed. Automatic pH, acidity and SO₂ analyses are made easy and simple.

Both a single analysis stand and 16 or 35 positions autosamplers can be connected to Flash.

The instrument has been designed to optimize the sample auto-level analysis procedure speeding up the whole preparation. The optional degassing system ensures a complete automatic analysis procedure with no external sample pre-treatment needed.

Its new design features light weight and small footprint.

Dimensions: 294x215x308mm

MAIN FEATURES:

- COMPACT: Flash is a compact-modular instrument and can be both upgraded and configured to satisfy the ever-changing laboratory needs;
- EASY-TO-USE: the coloured touchscreen display guides the user in each programming, analysis and data interpretation phase;
- ON-LINE GRAPHICS: during the titration process, a graph giving the analysis trend is displayed in real time.

SPECIFIC PROGRAMS ONLY FOR OENOLOGICAL ANALYSES

- pH and total acidity: performed with a pH electrode on sample (editable pH end-point titration)
- Free, total and combined SO₂: performed with double platinum electrode on sample (ripper method)
- pH calibration and reagents standardization: optional calibration with several buffers (e.g. 7/3pH)

PERIPHERAL UNITS

Automatic burettes:

Up to 2 burettes can be installed:

- burette equipped with 12.000 high definition stepper

motor

-10ml clear glass syringe and tip made of interchangeable PTFE

-Three-way valve (titrant/cleaning reactant suction, titrant delivery, syringe) made of anti-corrosive material



PUMPS

Very often a titration process requires addition of auxiliary reagents such as acid for acidifying, water for diluting, etc...

With up to a maximum of 3 peristaltic pumps, operated together or separately, every phase of the titration process can be made totally automatic.

Delivery: 1ml/sec

Internal tube: neoprene

External tube: PVC and PTFE

Accessories: Printer; Single analyses stand;

Sampler: 16 and 35 positions; Automatic degasser;

Software for data management on external PC

- Internal memory: 50 analyses, 10 calibrations; 30 methods

- Data export: date, hour, operator ID, sample ID, method, result, titrant volume

- pH calibration: a) 1 buffer calibration (7) b) 2 buffers calibration (7, 4 or 10) c) Theoretical (Nernst equation) d) Oenological 2 buffers calibration (7, 3),

Temperature compensation with pt100 probe during pH Calibration; Buffer auto-recognize; Refusal defective electrodes; Notice expired calibration etc

