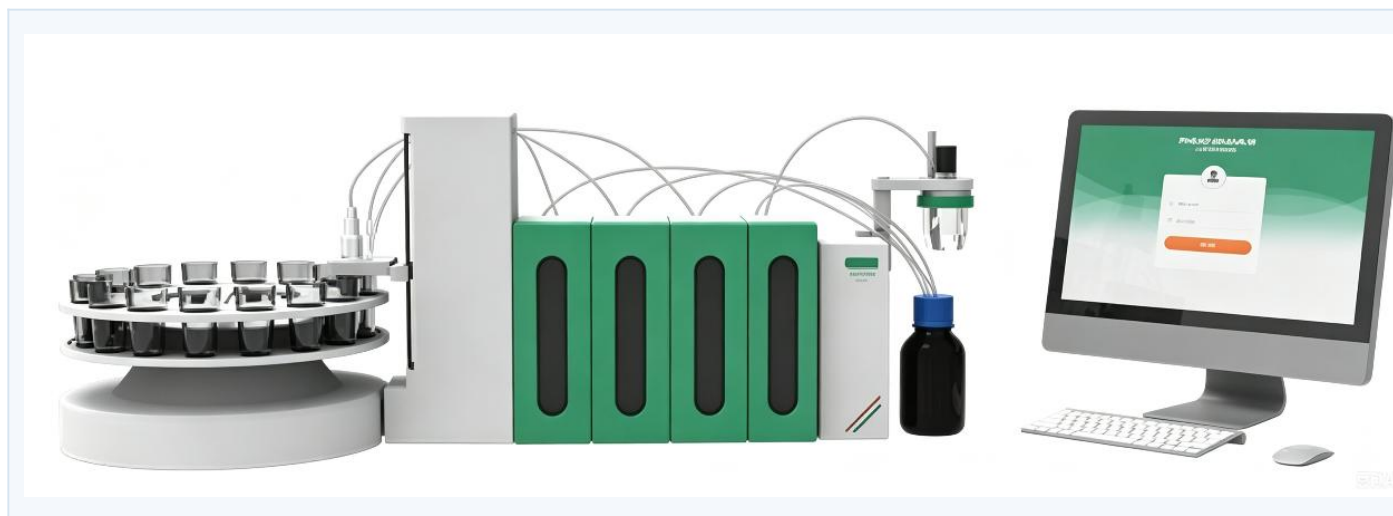


AUTOMATIC POTENTIOMETRIC TITRATION SYSTEM

MF95

Automatic Potentiometric Titrator



Unattended, multi-task titration from start to finish

The MF95 is a fully automatic potentiometric titrator engineered for demanding, high-throughput laboratories. An industry-leading multi-channel dosing system, a fully enclosed built-in burette and 16/20/34/40-position autosampler options deliver hands-free, multi-batch titration with no operator monitoring. Native compliance with FDA, GLP, GMP and AOAC — complete with audit trail, electronic signatures and LIMS connectivity — makes it equally at home in regulated QC and open R&D.

0.0001 mL

VOLUME ACCURACY

4 → 8

MODULAR DOSING CHANNELS

20-position

AUTOSAMPLER

NINE TITRATION MODES ON ONE PLATFORM

Equivalent · Dynamic · Manual · Endpoint · Conductometric · 2nd-derivative · Constant-pH · Photometric (color) · Continuous pH / mV

01 SIGNATURE CAPABILITIES

Synchronous multi-channel dosing

Industry-leading 4-channel simultaneous sampling, modularly expandable to 8 channels. Titrant, additives and auxiliary reagents combine freely — eliminating manual dosing for complex methods.

Enclosed built-in burette

The burette is housed safely inside the instrument and viewed through a window, fully isolating reagents from the operator and preventing spillage-related injury.

Flexible autosampler platform

Choose a standalone titration stand or 16 / 20 / 34 / 40-position autosamplers for hands-free, multi-batch operation with no operator monitoring required.

Comprehensive titration modes

Equivalent, dynamic, manual, endpoint, conductometric, 2nd-derivative, constant-pH, photometric (color) and continuous pH/mV — one platform for every method.

Regulatory compliance built-in

Meets FDA, GLP, GMP and AOAC with detailed audit trail, 3-tier user management, tamper-proofing, electronic signatures and LIMS upload.

Cloud service (optional)

A network interface lets you store experiment data in the cloud for big-data workflows — moving beyond the era of standalone, single-machine operation.

02 MEASUREMENT & HARDWARE SPECIFICATIONS

Specifications marked ★ are key performance parameters.

mV measurement range	–2000.00 to +2000.00 mV
mV resolution ★	0.01 mV
pH measurement range	–20.0000 to +20.0000 pH
pH resolution ★	0.0001 pH
Measurement accuracy	mV: 0.03 mV · pH: 0.003 pH
Temperature range	–20 to 135 °C
Temperature resolution	±0.01 °C
Titration volume accuracy ★	0.0001 mL
Burette resolution	1 / 1,800,000
Burette refill time	10 s (100 % fill speed)
Burette capacity	10 mL standard; 5 mL / 25 mL optional
Dosing channels ★	4 simultaneous, expandable to 8
Autosampler positions ★	16 / 20 / 34 / 40 selectable
Sample cup sizes ★	100 / 150 / 200 / 250 mL
Electrode interfaces	mV/pH, reference, PT1000 temperature, conductometric, photometric
Communication	2 × USB, RS-232, Ethernet, CAN-bus network

03 INTELLIGENT SOFTWARE & WORKFLOW

SAMPLE HANDLING

- Emergency sample priority (queue-jumping) ★
- Automatic sample-order rearrangement
- RFID reading + barcode scanner sample entry
- Balance data transfer to sample records
- Automatic cap-lifter — cuts evaporation & odor ★
- Built-in automatic rinsing

METHODS & DATA

- Custom, freely editable formulas & variables
- One-click method storage and recall
- Mouse-wheel curve zoom for fine detail ★
- Automatic PDF & Excel export ★
- PC reverse-control; optional wireless remote
- Endpoint results with selectable formula conversion

COMPLIANCE & SECURITY

- FDA · GLP · GMP · AOAC compliant
- Detailed, fully-traceable audit trail ★
- 3-tier hierarchical user management
- Tamper-proofing & electronic signatures
- Password aging & complexity control ★
- Encrypted backend · LIMS result upload ★

CONNECTIVITY & CHECKS

- Optional cloud data storage
- Network interface for big-data workflows
- Multiple automated self-checks
- pH electrode & burette-factor calibration
- 16 / 20 / 34 / 40 turntable switching in software ★
- Software copyright, patent & ISO 9001 certified

04 STANDARD CONFIGURATION

Each MF95 system ships complete and ready to run:

Automatic potentiometric titrator — main unit	1 set
10 mL burette system	4 sets
Propeller stirring system	1 set
Built-in automatic rinsing system	1 set
Photometric (color) titration module	1 set
Conductometric titration module	1 set
150 mL sample cups	60 pcs
ZG-series standalone 20-position (150 mL) autosampler	1 set
Notebook computer	1 unit
Anti-diffusion titration heads	4 pcs
Electrode set — Pt composite (redox), Ag composite, acid-base pH composite, photometric & conductivity	1 set

COMPLIANT & CERTIFIED

FDA · GLP · GMP · AOAC · ISO 9001 · Software Copyright & Patent Certificates