



LAB-GRADE ENGINEERING. OEM SCALE RELIABILITY.  
SCIENTIFIC INSTRUMENTS • OEM MANUFACTURING • LAB SOLUTIONS

PRODUCT BROCHURE

PRECISION  
RELIABILITY  
FOR A BRIGHTER  
TOMORROW

## ANALYTICAL INSTRUMENTATION

# AUTOMATIC POTENTIOMETRIC TITRATOR

ALC-APT Series

**Accurate automated titration  
for reliable analytical results.**

The ALC-Scientific Automatic Potentiometric Titrator provides precise volumetric titration for acid-base, redox, precipitation and complexometric analysis in quality-control and research laboratories.



MEASUREMENT RANGE

pH 0–14



INDICATIVE VOLUME

10 / 20 / 50 mL



APPLICATION

General / Analytical



MODEL

ALC-APT Series



CATALOGUE NUMBER

To be confirmed



## OVERVIEW &amp; FEATURES

PRECISION  
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## ANALYTICAL INSTRUMENTATION

# Precise automated titration for routine analytical workflows.

## ALC-APT Series

The ALC-Scientific Automatic Potentiometric Titrator provides precise, automated volumetric titration for acid-base, redox, precipitation and complexometric analysis, delivering accurate and reproducible results for quality-control and research & development laboratories.



## MEASUREMENT RANGE

pH 0–14

## TITRATION MODES

Acid-base / Redox / Complexometric

## APPLICATION

QC / R&amp;D

## Key Features



**Touchscreen control and method storage**  
Intuitive touch interface with method creation, storage and recall for improved efficiency.



**Automated endpoint detection**  
Accurate and reliable endpoint determination using potentiometric measurement.



**Precise burette handling**  
High-precision dosing system ensures accurate titrant delivery and reproducible results.



**Support for multiple titration methods**  
Suitable for acid-base, redox, precipitation and complexometric analysis.



**Compact bench design**  
Space-saving footprint for modern laboratories without compromising performance.



**Suitable for research and quality-control laboratories**  
Reliable performance for routine analysis in QC and R&D environments.

## Working Principle

The ALC-APT Series measures the electrode potential (e.g., pH, ORP, or ion-selective electrode) during titration. The change in potential is monitored as titrant is added, and the endpoint is determined automatically using predefined algorithms, providing accurate and reproducible results.

## TYPICAL APPLICATIONS



**Pharmaceuticals**  
(API, excipients, formulation analysis)



**Chemicals**  
(raw materials, process control)



**Water analysis**  
(drinking water, wastewater, environmental)



**Academic laboratories**  
(teaching and research)



**Quality-control laboratories**  
(routine analysis and release testing)



## TECHNICAL SPECIFICATIONS

PRECISION  
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## REFERENCE TECHNICAL DATA

# Model-specific values require approved OEM confirmation.

| PARAMETER           | REFERENCE SPECIFICATION                            |
|---------------------|----------------------------------------------------|
| Product type        | Automatic Potentiometric Titrator                  |
| Titration principle | Potentiometric                                     |
| Titration modes     | Acid-base / Redox / Precipitation / Complexometric |
| Measurement range   | pH 0–14                                            |
| Display             | Integrated touchscreen display                     |
| Burette options     | 10 / 20 / 50 mL, model dependent                   |
| Electrode system    | Combination / ion-selective, application dependent |
| Data handling       | Method storage and result logging                  |
| Power supply        | 220–240 V AC, 50 Hz                                |
| Applications        | QC / R&D / analytical laboratories                 |

## STANDARD SUPPLY

- Main unit (ALC-APT Series)
- Titration stand
- Basic electrode set
- Tubing kit
- Power cord
- User manual

## OPTIONAL / MODEL-DEPENDENT

- Printer
- Autosampler compatibility
- Extra burette options (10 / 20 / 50 mL)
- Software / data export
- Specialized accessories

## TO BE CONFIRMED

- Final model configuration
- Qualification documents (IQ / OQ, if required)
- Site requirement (utilities, space, environment)
- Delivery timeline / commercial terms


**ALC-Scientific**

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APPLICATIONS &amp; ENQUIRY

 PRECISION  
 SOLUTIONS  
 FOR REAL-WORLD  
 LABORATORIES

## LABORATORY APPLICATIONS

# Accurate automated titration for quality assurance and laboratory workflows.



## Applications

- Pharmaceutical testing
- Chemical analysis
- Water testing
- Petrochemicals
- Raw-material QC
- Research laboratories



## Product Advantages

- Precise endpoint determination
- Multiple titration modes
- Touchscreen operation
- Compact bench design
- Data handling convenience
- OEM / private-label suitability

## INDUSTRIES SERVED

Pharmaceutical / Chemical / Academic / Industrial / Analytical laboratories



### SCAN PRODUCT PAGE

[alcsscientific.com/brochure/automatic-potentiometric-titrator](http://alcsscientific.com/brochure/automatic-potentiometric-titrator)

## Request a model-specific quotation.

Share your sample type, required method, expected throughput, installation city and any documentation needs, and our team will suggest the most suitable configuration and provide a detailed quotation.

## ALC-SCIENTIFIC LABORATORY SYSTEMS

OEM / PRIVATE LABEL AVAILABLE


[alcsscientific.com](http://alcsscientific.com)

[info@alcsscientific.com](mailto:info@alcsscientific.com)


+91 89501 26206