

Automatic Titrator

COM-300A

Compact & Low price



1. COMPACT !

- ✓ All components are integrated in a small footprint of 31 cm (W) x 27 cm (D).
- ✓ Saves valuable bench space.

2. FLEXIBLE !

- ✓ Performs acid/base, redox, precipitation and complexometric titrations.
- ✓ Combining optional KF kit, performs Karl Fischer moisture determination.
- ✓ A wide selection of electrodes.

3. POWERFUL !

- ✓ 30 user defined methods plus 10 KF methods can be stored in memory and easily recalled according to samples.
- ✓ Up to 50 results with titration curve can be stored with statistics calculation.

4. SATISFACTION !

- ✓ Equipped with two RS-232C ports for balance and computer connection.
- ✓ Standard package includes AQUANet data download software, instruction movie, application guidebook and more.

COM-300A Standard Specifications

Titration process	Standard: Potentiometric titration Optional: Photometric titration, Volumetric Karl-Fischer titration
Measuring Range	pH: 0 - 14, Resolution 0.01 pH, mV: +/-2000 mV, Resolution 0.1mV
Electrode Inputs	Indicator electrode: 1, Reference electrode: 1, Temperature electrode: 1, KF electrode: 1
Titration steps	Up to 3 steps
Number of Endpoints	Up to 2 points
End point detection	Automatic detection by: -Inflection point, -Set point, -F Cross point, -B Cross point
Display screen	2-lines by 16 digits with backlit LCD
Display unit	pH, mV, mgH ₂ O, %, ppm, M, g/L, mg/g, Fact1, Fact2
pH calibration	2 or 3 points (compliant to ASTM or other standard buffers)
File function	30 files for potentiometric titrations. 3 files for Karl-Fischer titrations. 10 files for titration control methods
Calculation function	Concentration calculation, Statistics calculation
Memory data capacity	50 titration results along with titration curves and parameters and via external computer
Precautions against power failure	Built-in backup battery
Electrodes (Standard component)	GE-101B Glass electrode, RE-201 Reference electrode, TE-401 Thermistor electrode
Buret	Capacity: 20 mL, Minimum drop size: 0.01mL, Reproducibility: within +/-0.01 mL
Tubing	Teflon tube of 2 mm(ID) and 3 mm(OD)
Switching Valve	Automatic switching valve with ceramic joint.
Stirrer	Integrated, variable speed, magnetic stirrer
Printers	Optional thermal printer; PR-2000T2(PRINTY3), Optional impact printer; PR-302B(CBM-910-40PF)
External input/output	RS-232C; 2 ports Port 1 (BALANCE): For connection to electronic balance. Port 2 (HOST): For connection to external computer.
Power supply ; Power consumption	AC 100 - 240 V, 50/60 Hz & 100 VA
Dimensions & Weight	W 310 mm x D 270 mm x H 300 mm; Approx. 7 kg

Optional unit

Photometric Detection Unit M-530

Thermal Printer PRINTY3 (Paper width:80mm)

Buret B-130

Stirrer K-2000A2S

Dot Impact Printer CBM-910-40PF (Paper width:58mm)

Karl Fischer Titration Kit

Ordering Information COM-300A Instrument Part Numbers

Part No.	Model / Part Name	Description
Automatic Titrators		
D270476-A	Automatic Titrator COM-300A	Automatic Titrator, Equipped with Potentiometric detection amplifier
Detection Unit		
D270460-A	Photometric Detection Unit M-530	w/ Photometric Probe/ 530nm,650nm Filters
C270468-B	Karl Fischer Titration Kit	Titration cell, Drying tube, Cell holder, 2mL/5mL Syringe, Syringe needle, etc.
Optional Buret and Stirrer		
D270470-A	Buret B-130	Capacity: 20 mL, For titration, or reagent addition.
C201503-C	Stirrer K-2000A2S	Power supply: AC100 - 240V

Part No.	Model / Part Name	Description
Printers		
D310251-A	Thermal Printer PRINTY3	Power supply: AC120V w/ cable Paper width 80mm
D300251-B	Thermal Printer PRINTY3	Power supply: AC240V w/ cable Paper width 80mm
D310255-A	Dot Impact Printer CBM-910-40PF	Power supply: AC120V w/cable Paper width 58mm
D310255-B	Dot Impact Printer CBM-910-40PF	Power supply: AC240V w/cable Paper width 58mm

A wide selection of electrodes are available. Please contact your local distributor.

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Appearance, specification, etc. are subject to change for improvement without prior notice.

[Note] For safe and appropriate use, please be sure to read the "Instruction Manual" before using the product.

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