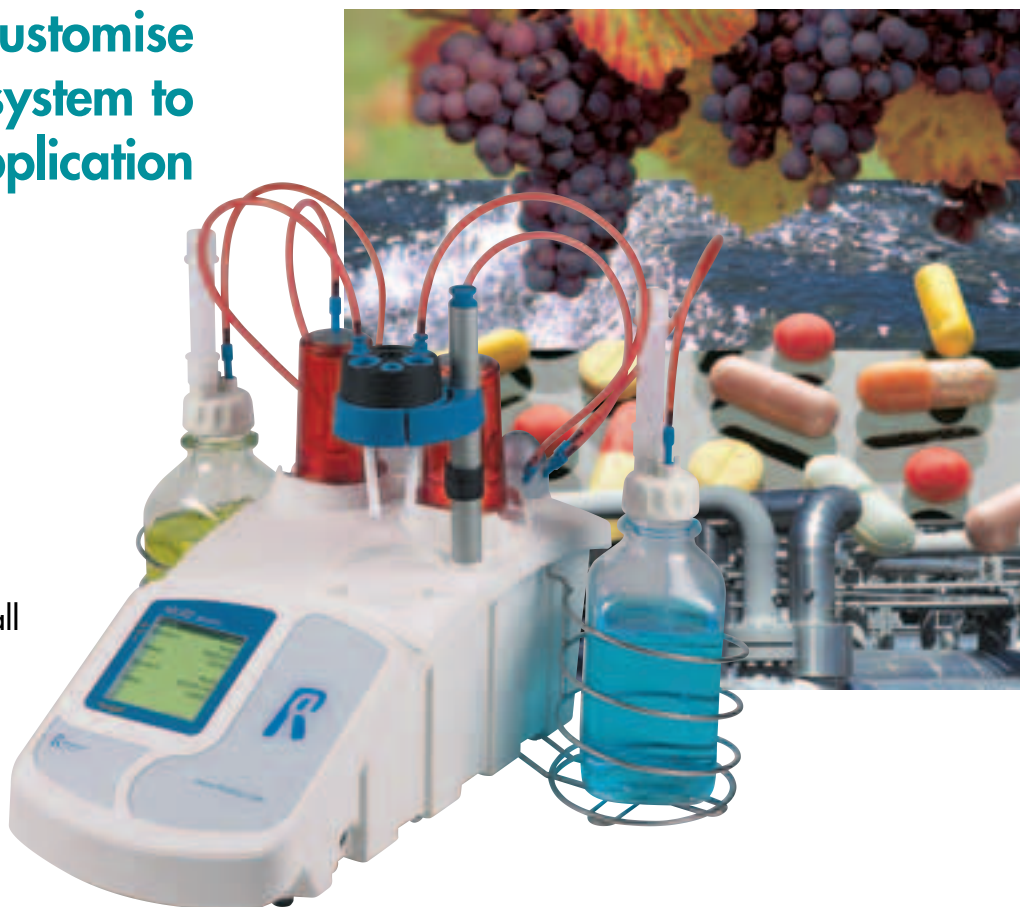


ABU52 Biburette

**Customise
your system to
every application**

The ABU52 Biburette comes complete with all necessary accessories. Extending your system couldn't be simpler:



Add extra capacity

Each ABU52 gives you two motor-driven burettes, two electrode inputs and one temperature input. Two ABU52s can be connected to a TitraLab® workstation, providing up to six titrating burettes and six high-impedance electrode inputs in one system, meeting every application need. Use the ABU52 as an extra titration sample stand or for electrode storage and reconditioning.

Automate your system

The required ABU52 burette and installed electrode are selected via methods programmed in the titration workstation, with the system taking charge of precise titrant or reagent dispensing. The large screen display gives you information about reagent status at a glance.

Ensure fast and accurate dispensing

Choose from five monoblock burette sizes: 1, 5, 10, 25 and 50 ml, all conforming to the ISO 8655-3 standard. The full volume can be dispensed in less than 20 seconds, with a resolution as small as 0.1 µl with the 1 ml burette.

Use as a stand-alone dosing unit

The ABU52 can be operated manually by simply connecting a standard PC keyboard. Just fit the right electrode and the ABU52 becomes a versatile manual titration unit. mV/pH readings are shown on the large screen for each titrant increment dispensed along with a live titration curve. Graphic tools enable you to determine the location of your equivalence point(s) manually in order to calculate the final result.

The ABU52 Biburette is a complete solution

ABU52

- Two high-resolution burettes with a wide choice of volumes to add burette capacity to your TitrLab workstation or for manual dosing/titration.
- Two high-impedance electrode inputs with differential measurement mode plus one for imposed current to add electrode capacity to your TitrLab workstation or for manual titration.
- A sample stand with stirring to hold and recondition electrodes not in use or to perform manual titration.
- Two bottle holders for keeping reagents securely in place.
- A full set of accessories and cables for easily completing your workstation installation.



Technical Specifications

Burette

2 embedded burette stands.
Burette volumes available:
1, 5, 10, 25, 50 ml.
Burette motor: 18,000 steps.
Complies with ISO 8655-3.
UV-protected encapsulated glass syringe.
Embedded operating procedures for burette exchange, air bubble removal (Flush).
Rinse, Fill, Empty function.
Second burette operational during first burette refill.

Inputs/outputs

2 indicator electrode inputs.
1 reference electrode input.
Selectable polarised input from
-1 mA to 1 mA in 1 μ A steps, DC or AC.
Differential input.
Temperature input.
Serial connections to titration workstation/PC and second ABU52 Biburette.
PS/2 port for PC keyboard to operate the ABU52 independently from a titration workstation.

Measuring ranges

-9 to 23 pH
 ± 2000 mV
-10 to 100°C

Resolution

0.001 pH
0.1 mV
0.1°C

Languages

English, German, Danish, French, Italian, Spanish and Swedish.

Casing

Fully splashproof polypropylene.
Graphic 128 x 128 dot LCD.

Dimensions (H x W x D)

380 x 230 x 450 mm (excl. tubing).

Weight

5 kg (excl. reagent bottles)

CE Marking (ABU52)

Complies with EMC directive
89/336/EEC
Complies with LV directive 73/23/EEC.

Power requirements

47.5 – 63 Hz
115/230 Vac ± 15 – 18%.

Environmental conditions

5 to 40°C temperature
20 to 80% relative humidity.

Ordering information

ABU52 systems

The ABU52/xx-xx Biburette includes a full set of connecting cables, sample stand accessories and two xx ml burettes from a choice of 1, 5, 10, 25 and 50 ml stands.

Metrology

To comply with ISO 9001 and ISO 17025 requirements, our metrology dept. can supply calibration and verification certificates. Our COFRAC accredited laboratory produces pH and conductivity standards with certificates of traceability and conformity.

Burette specifications according to ISO 8655-3

Burette stand Type	Nominal volume ml	Maximum permissible systematic errors		Maximum permissible random errors	
		$\pm \%$	$\pm \mu\text{l}^a$	$\pm \%^b$	$\pm \mu\text{l}^c$
B501	≤ 1	0.6	6.0	0.1	1
B505	5	0.3	15	0.1	5
B510	10	0.2	20	0.07	7
B525	25	0.2	50	0.07	17.5
B550	50	0.2	100	0.05	25

a Expressed as the deviation of the mean of a tenfold measurement from the nominal volume or from the selected volume (see ISO 8655-6:—, 8.4).

b Expressed as the coefficient of variation of a tenfold measurement (see ISO 8655-6:—, 8.5).

c Expressed as the repeatability standard deviation of a tenfold measurement (see ISO 8655-6:—, 8.5).

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Lit. No. 4485



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