



**OCEAN** King India  
Home of Quality Products

## Ocean Series 1043B Automatic Potentiometric Titrator



### **Application:**

Widely used in food additives, food safety, pharmaceutical production, petrochemical, quality control, research institutions.

### **Typical Titration Applications:**

Acid-base titration - Drugs in Amino Acids, bento thiazide

Redox Titration - Foods Iodine Value, Peroxide Value, Vitamin C Water treatment  
chemical oxygen demand

COD Precipitation titration - Chloride titration, Pb<sup>2+</sup>

Complexometric titration - Calcium, Zinc ion Titration, Formaldehyde

Non-aqueous titration - Perchloric acid titration

pH value/ mV measurement - H<sup>+</sup> pH/mV Reminding ions mV

#### **Contact Address :**

Ocean King International  
6213/B, St. No.-4, Hargobind Nagar,  
Ludhiana, India 141008.

#### **Sales and Support:**

**Tel :** +91-161-5049059, 2222471

**Email:** info@oceankingindia.com, amitsood24@gmail.com  
website: www.oceankingindia.com, www.goldtester.co



## Features:

- 1. The compact designed integrated titrator and convenient automatic titration system
  - a). Burette valve integrated design, easy to replace, to avoid different titration, mutual interference of different solutions
  - b). Automatic identification pH standard solution group (standard solution group 1:4.00 pH, 6.86pH, 9.18pH; standard solution group 2:3.78 pH, 7.00pH, 10.01pH), supports manually identify
  - c). Support setting the system time, Operator ID, Burette type, Burette factor, Stirrer speed, Manual temperature, and Correction potential zero value.
  - d). Titration endpoint reminder
- 2. GLP compliant measurement information, can be traced back more complete information
  - a). Stores 200 sets titration results and a set of titration curve
  - b). Data deleted, viewed, printed or exported
  - c). Complete record of the titration mode. Titration type. Titration start time. Titration end time. Operator. Stirring rate. Burette type. Burette factor. Titrant concentration. Sample volume. End number. Concentration.
- 3. Upgrade function, reduce costs titration, make the operation more perfect
  - a). Software upgrades can be connected to an autosampler, a perfect improve efficiency
- 4. Titrator control: dot matrix LCD. Key operation. While controlling software. Or are controlled
- 5. Real-time display on testing methods, the titration curve, the measurement results
- 6. With a pre-titration (dynamic titration), preset end point titration, the titration mode (two types of dedicated modes titration
  - a.  $\text{HCl} \rightarrow \text{NaOH}$  (0.1mol / L), b.  $\text{K}_2\text{Cr}_2\text{O}_7 \rightarrow \text{Fe}^{2+}$  (0.1mol / L.)
- 7. Blank titration, manual titration, PH measurement, titration mode, support for generating special titration mode, allowing users to create support for generating special titration mode, allowing users to create up to 8 titration mode

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- 8. Power protection
  - 9. USB interface, RS-232 printer port, supporting special titration software, a PC can be connected via the USB interface. On the computer can instantly display the titration curve and its first and second derivatives.  
Easy to edit and modify the titration modes, and can be the result of statistical
  - 10. Support restore factory settings
- 

## Technical Parameters:

- 1. Measurement Range  
pH value: (0.00 ~ 14.00) pH;  
mV value: (-1800.0 ~ 1800.0) mV; Temperature values: (-5.0 ~ 105.0) °C.
- 2. Resolution  
pH value: 0.01pH; mV value: 0.1mV; Temperature: 0.1 °C.
- 3. Basic error  
pH values:  $\pm 0.01\text{pH} \pm 1$  word; mV values:  $\pm 0.03\%$  FS; Temperature values:  $\pm 0.3$  °C;
- 4. Burette capacity tolerance 10ml Burette:  $\pm 0.025\text{ml}$ ; 20ml Burette:  $\pm 0.035\text{ml}$ .
- 5. Burette drive Resolution: 1/20000
- 6. Titration analysis Repeatability: 0.2%.
- 7. Electronic unit repeatability error:  $\leq 0.2\text{mV}$ .

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## Packing List:

| No. | Specification                             | Qty |
|-----|-------------------------------------------|-----|
| 1   | Automatic Potentiometric titration        | 1pc |
| 2   | 232-01 reference electrode                | 1pc |
| 3   | 213-01 platinum electrode                 | 1pc |
| 4   | 216-01 silver electrode                   | 1pc |
| 5   | 217-01 reference electrode                | 1pc |
| 6   | 213-01 type pH glass electrode            | 1pc |
| 7   | T-818-B-6-Type Temperature electrodes     | 1pc |
| 8   | Dropping tube (SC5.462.013)               | 4pc |
| 9   | Solution cups (SC8.219.010)               | 3pc |
| 10  | Solution cups (SC8.463.001)               | 3pc |
| 11  | Ejector tool(SC8.227.126)                 | 1pc |
| 12  | Burette Valve device 10ml(SC5.461.044)    | 1pc |
| 13  | Stir beads (Small)                        | 3pc |
| 14  | Electrode Holder Device(SC5.108.022)      | 1pc |
| 15  | Sealing Ring(SC8.370.249)                 | 3pc |
| 16  | Infusion tube (flurine plastic) 3.2 X 0.5 | 2pc |
| 17  | Casing 008NC32-YC5U Imported              | 3pc |
| 18  | Inverted conical Washer 008CZ32           | 3pc |
| 19  | Plastic liquid storage bottel(500ml)      | 1pc |
| 20  | Fuse 5 X 20 (1A)                          | 2pc |
| 21  | Universal power supply cable              | 1pc |
| 22  | TP-16 type serial printer cable           | 1pc |
| 23  | USB Communication cable                   | 1pc |
| 24  | Product specification and Application     | 1pc |
| 25  | Product certification                     | 1pc |
| 26  | Titration Software                        | 1pc |

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