

# S-621 Precise pH/DO Meter

Precise measurements of pH/DO in fields of biotechnology, aquaculture, power plant and environmental protection, and also more widely used in areas of education and scientific research.



## Main Features

- 6.5 inch LCD screen which is intuitive and can show more parameters. Humanized design of operating interface makes operations simpler.
- Omron long lasting and light touch panel can be used more than 100,000 times.
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function setup, smart self-diagnosis and other intelligent functions.
- Built-in big memory can store 150 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit.
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffer for option: USA series, NIST series and China series.
- Do mode has functions of ATC, auto salinity compensation and auto pressure compensation.
- New structure polarographic DO electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special DO electrode calibration sleeve, only need 3~5 minutes for polarization.
- Combined diaphragm cap makes it extremely convenient to replace the sensitive membrane just by screwing the new cap to the electrode.
- Optional Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to cell phone via wireless Bluetooth.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.

## Specifications

| MODEL                      | S-621                       |                                    |
|----------------------------|-----------------------------|------------------------------------|
| pH                         | Measuring range             | (-2.00~18.00) pH                   |
|                            | Resolution                  | 0.1/0.01 pH                        |
|                            | Accuracy                    | ±0.02 pH                           |
|                            | Input current               | ≤2×10 <sup>-12</sup> A             |
|                            | Input impedance             | ≥1×10 <sup>12</sup> Ω              |
|                            | Stability                   | ±0.01 pH /3h                       |
|                            | Temp compensation           | (0 ~ 100) °C (auto or manual)      |
| mV                         | Measuring range(mV/ORP/EH)  | -1999.9mV ~ 0 ~ 1999.9mV           |
|                            | Resolution                  | 1mV                                |
|                            | Accuracy                    | ±0.1% FS                           |
| Dissolved Oxygen           | Measuring range             | (0 ~ 20.00) mg/L(ppm)(0 ~ 200.0)%  |
|                            | Resolution                  | 0.1/0.01 mg/L(ppm) 1/0.1%          |
|                            | Accuracy                    | ±0.3%, ±0.40 mg/L                  |
|                            | Response time               | ≤30 s (25 °C, 90% response)        |
|                            | Residual current            | ≤0.1 mg/L                          |
|                            | Temp compensation range     | (0 ~ 100) °C (automatic)           |
|                            | Salinity compensation range | (0 ~ 45) ppt (automatic)           |
|                            | Air pressure compensation   | (80 ~ 105) kPa (automatic)         |
|                            | Electrode type              | Polarographic                      |
| Temperature                | Measuring range             | 0 °C ~ 100 °C                      |
|                            | Resolution                  | 0.1 °C                             |
|                            | Accuracy                    | 5 ~ 60 °C: ±0.4 °C Others: ±0.8 °C |
| Other Technical Parameters | Data storage                | 150 groups                         |
|                            | Power requirements          | DC 12V/1A                          |
|                            | Communication connectors    | Bluetooth, USB                     |
|                            | Size&Weight                 | 240 × 170 × 70mm/600g              |
| Working Conditions         | Temperature                 | 5 ~ 35 °C                          |
|                            | Ambient humidity            | ≤85%                               |
|                            | IP grade                    | IP54                               |

## Standard Configuration

|                                    |          |                                   |       |
|------------------------------------|----------|-----------------------------------|-------|
| 1. S-621 Benchtop pH/DO meter      | 1 unit   | 2. Composite pH electrode         | 1 pc  |
| 3. Rotary electrode holder         | 1 pc     | 4. pH calibration buffer          | 1 set |
| 5. Dissolved Oxygen Electrode      | 1 pc     | 6. Membrane cap(for DO electrode) | 3 pcs |
| 7. DO electrode electrolyte (30mL) | 1 bottle | 8. 12V power adapter              | 1 pc  |
| 9. User manual                     | 1 copy   |                                   |       |