

# S-623 Precise Conductivity/DO Meter

For high-precision measurements of the conductivity/DO in laboratory. Widely used in the fields of biotechnology, aquaculture, power plants and environmental protection.



## 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 eight kinds of standard conductivity solution and there are two series of standard solution for option: USA series and China series.
- Adopt advanced conductivity measurement technology, one point calibration of conductivity electrode can meet the measuring accuracy requirements for test  $0.5\mu\text{S}/\text{cm} \sim 200\text{mS}/\text{cm}$ .
- Able to switch between conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- 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.
- IP54 dustproof and waterproof housing.

## Specifications

MODEL		S-623
Conductivity	Measuring range	Conductivity: (0.00~20.00) $\mu\text{S/cm}$ (20.0~200.0) $\mu\text{S/cm}$ (200~2000) $\mu\text{S/cm}$ (2.00~20.00) $\text{mS/cm}$ (20.0~200.0) $\text{mS/cm}$ (200~2000) $\text{mS/cm}$ (K=10) Resistivity: (0 ~100) $\text{M}\Omega\cdot\text{cm}$ TDS: (0~100) $\text{g/L}$ Salinity: (0~100) ppt
	Resolution	0.01/0.1/1 $\mu\text{S/cm}$ 0.01/0.1/1 $\text{mS/cm}$
	Accuracy	Electrode: $\pm 0.5\%$ FS, Instrument: $\pm 0.80\%$ FS
	Temp compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Electrode constant	0.1/1/10 $\text{cm}^{-1}$
	Reference temperature	25 $^{\circ}\text{C}$ , 20 $^{\circ}\text{C}$ , 18 $^{\circ}\text{C}$
Dissolved Oxygen	Measuring range	(0 ~20.00) $\text{mg/L(ppm)}$ , (0 ~ 200.0)%
	Resolution	0.1/0.01 $\text{mg/L(ppm)}$ , 1/0.1%
	Accuracy	$\pm 0.3\%$ , $\pm 0.40$ $\text{mg/L}$
	Response time	$\leq 30\text{s}$ (25 $^{\circ}\text{C}$ , 90% response)
	Residual current	$\leq 0.1$ $\text{mg/L}$
	Temperature compensation	(0~100) $^{\circ}\text{C}$ (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(80~105) $\text{kPa}$ (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	Electrode type	Polarographic
Temperature	Measuring range	0 $^{\circ}\text{C}$ ~100 $^{\circ}\text{C}$
	Resolution	0.1 $^{\circ}\text{C}$
	Accuracy	5~60 $^{\circ}\text{C}$ : $\pm 0.4$ $^{\circ}\text{C}$ Others: $\pm 0.8$ $^{\circ}\text{C}$
Other Parameters	Data storage	150 groups
	Power	DC 12V/1A
	Communications	USB, wireless Bluetooth
	Size & Weight	240×170×70mm/600g
Working Conditions	Ambient temperature	5~35 $^{\circ}\text{C}$
	Ambient humidity	$\leq 85\%$
	IP grade	IP54

## Standard Configuration

1. S-623 conductivity/DO meter	1 unit	2. Conductivity electrode	1 pc
3. Rotary electrode holder	1 pc	4. Dissolved Oxygen Electrode	1 pc
5. Membrane cap (for DO electrode)	3 pcs	6. DO electrode electrolyte (30ml)	1 bottle
7. 12V power adapter	1 pc	8. User manual in USB	1 copy