

# S-630 pH/mV/Conductivity/DO Meter

Multi-parameter analyzer for high precision measurement in laboratory covering 9 kinds of electrochemical parameters like pH, conductivity and dissolved oxygen. Suitable for the fields of petroleum, chemical, pharmacy, power plants and environmental protection, and also 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.
- 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.
- Smart judge of electrode status to ensure accurate use for operators.
- IP54 waterproof and dustproof.



## Specifications

MODEL	S-630	
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	0.01pH/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
conductivity	Measuring range	Conductivity:(0.00~20.00) µS/cm (20.0~200.0) µS/cm (200~2000) µS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm (200~2000) mS/cm (K=10) Resistivity: (0 ~100)MΩ·cm TDS: (0~100) g/L Salinity: (0 ~ 100) ppt
	Resolution	0.01/0.1/1µS/cm 0.01/0.1/1mS/cm
	Accuracy	Electrode: ±0.5% FS, Instrument: ±0.80%FS
	Temp compensation	(0~100) °C (automatic)
	Electrode constant	0.1/1/10 cm <sup>-1</sup>
	Reference temperature	25 °C, 20 °C, 18 °C
	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	≤30s (25 °C, 90% response)
Dissolved Oxygen	Residual current	≤0.1 mg/L
	Temperature compensation	(0~100) °C (automatic)
	Salinity compensation	(0~45) ppt (automatic)
	Pressure compensation	(80~105)kPa (automatic)
	Automatic calibration	Air saturated by water, water saturated by air
	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 Parameters	Data storage	150 groups
	Storage contents	Measurement series number, measuring value, temperature, ATC or MTC status, date and time
	Power	DC 12V/1A
	Communications	USB, wireless Bluetooth
	Size & Weight	240 × 170 × 70mm/600g
Working Conditions	Ambient temperature	5~35 °C (grade 0.01)
	Ambient humidity	≤85%
	IP grade	IP54