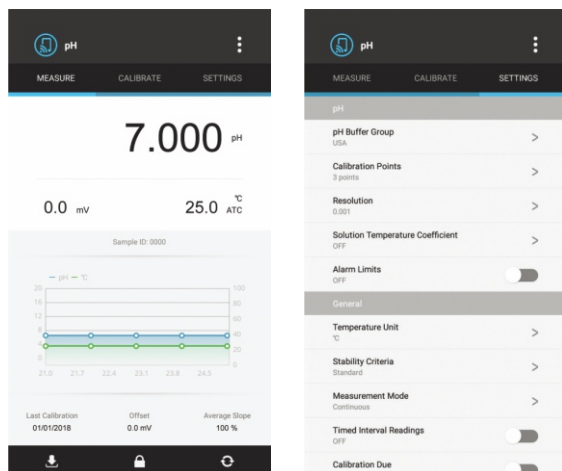


## S Series Bluetooth Water Quality Tester



High-performance bluetooth water quality testers, including the 6 models. The testers are suitable for Android smartphone or tablet.



### Features

#### S10 pH Tester

- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and zero offset
- Solution temperature coefficient compensates for the pure water samples and references the pH to 25°C

#### S20 ORP Tester

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

#### S30 Ion Tester

- 2 to 5 points calibration, including the selection of 8 concentration points
- Electrode management is capable of storing and recalling up to 3 electrode slopes
- Automatic electrode diagnosis shows the calibration points and electrode slopes
- Selectable ion measurement methods (direct reading, known addition/subtraction, sample addition/subtraction) and concentration units (ppm, mg/L, mol/L, mmol/L)

#### S40 Water Hardness Tester

- 2 to 5 points calibration from low to high concentrations
- Selectable water hardness unit, including german degree (°dH), english degree (°e), french degree (°fH), gpg, mg/L and mmol/L

**S50 Conductivity Tester**

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows the calibration points and factors
- Selectable cell constant, temperature compensation type (linear/non-linear/EP/USP), temperature compensation coefficient, pure water compensation coefficient, reference temperature (20/25°C) and TDS conversion factor (0.01 to 1.00)

**S60 Dissolved Oxygen Tester**

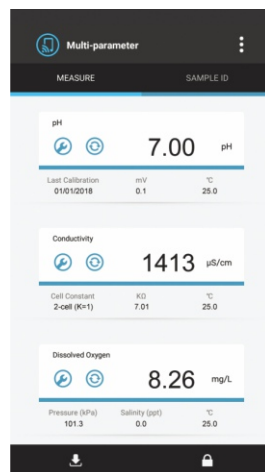
- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement errors
- Selectable testing time, beginning/ending dissolved oxygen are used for oxygen uptake rate (OUR) and specific oxygen uptake rate (SOUR) calculations

**General Features**

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-read function senses and locks the measurement endpoint
- Timed Interval Readings sends the measurement data to memory or printer
- Limit Alarm automatically alerts when measurement exceeds the specified range
- Calibration due alarm reminds the user to calibrate the tester regularly
- Password protection prevents the unauthorized calibration and settings
- Multiparameter measurement allows up to 3 testers connected to device and displays readings simultaneously
- Reset function automatically resumes all settings back to the factory defaults

**Ordering Information**

- S10: Tester, pH buffer solutions, carrying case
- S20: Tester
- S30: Tester, ion selective electrode, 100/1000 ppm standard solutions, ionic strength adjuster, carrying case
- S40: Tester, water hardness electrode, 10/100 mmol/L standard solutions, ionic strength adjuster, carrying case
- S50: Tester, conductivity standard solutions, carrying case
- S60: Tester, dissolved oxygen electrode, electrolyte solution, membrane cap, carrying case



**Calibration Report**

Conductivity

Data and Time: 01/01/2018 10:28:00

Cell Constant: 2-cell (K=1)

Temperature: 25.0 °C

Calibration Due: 3 days

Calibration Points	Details
84.0 µS/cm	1.058
1413 µS/cm	0.951
12.88 mS/cm	1.125

## Specifications

Model		S10
pH	Range	-2.000~20.000 pH
	Resolution	0.001, 0.01, 0.1 pH, selectable
	Accuracy	±0.002 pH
	Calibration	1 to 5 points
	pH Buffer Options	USA, NIST, DIN, 5 custom buffers
	Temperature Compensation	0~100°C/32~212°F, automatic
	Solution Temperature Coefficient	25°C
mV	Range	±2000.0mV
	Resolution	0.1, 1 mV, selectable
	Accuracy	±0.2mV

Model		S20
ORP	Range	±2000.0mV
	Resolution	0.1, 1 mV, selectable
	Accuracy	±0.2mV
	Calibration	1 point

Model		S30
Ion	Range	0.001~30000 (depending on the range of ISE)
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)
	Measurement Units	ppm, mg/L, mol/L, mmol/L
	Calibration	2 to 5 points
	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000
	Temperature Compensation	0~100°C/32~212°F, manual
	Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction
mV	Electrode Management	1 to 3 electrodes
	Range	±2000.0mV
	Resolution	0.1, 1 mV, selectable
Accuracy	±0.2mV	

Model		S40
Water Hardness	Range	0.05~200mmol/L, 0~1122°dH, 0~1404°e, 0~2000°fH, 0~1170gpg, 0~8020mg/L (Ca <sup>2+</sup> ), 0~20000mg/L (CaCO <sub>3</sub> ), 0~11220mg/L (CaO)
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±1% F.S.
	Measurement Units	mmol/L, °dH, °e, °fH, gpg, mg/L (Ca <sup>2+</sup> ), mg/L (CaCO <sub>3</sub> ), mg/L (CaO)
	Calibration	2 to 5 points
	Calibration Solutions	0.01, 0.1, 1, 10, 100mmol/L
	Temperature Compensation	0~50°C/32~122°F, manual
mV	Range	±2000.0mV
	Resolution	0.1, 1 mV, selectable
	Accuracy	±0.2mV

Model		S50-M	S50-H
Conductivity	Range	0~20.00, 200.0, 2000 $\mu$ S/cm, 20.00 mS/cm	100.0~2000 $\mu$ S/cm, 20.00, 200.0 mS/cm
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	$\pm$ 0.5% F.S.	$\pm$ 0.5% F.S.
	Calibration	1 to 3 points	1 to 3 points
	Calibration Solutions	84 $\mu$ S/cm, 1413 $\mu$ S/cm, 12.88 mS/cm	1413 $\mu$ S/cm, 12.88 mS/cm, 111.8 mS/cm
	Temperature Compensation	0~100°C/32~212°F, automatic	0~100°C/32~212°F, automatic
	Temperature Coefficient	Linear (0.0~10.0%/°C), non-linear, USP, EP	Linear (0.0~10.0%/°C), non-linear, USP, EP
	Pure Water Compensation	Yes	Yes
	Reference Temperature	20/25°C	20/25°C
	Cell Constant	K=1	K=10
TDS	Range	0~10.00, 100.0, 1000 mg/L, 20.00 g/L	0~100.0, 1000 mg/L, 10.00, 200.0 g/L
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	$\pm$ 1% F.S.	$\pm$ 1% F.S.
	TDS Factor	0.01~1.00 (default 0.5)	0.01~1.00 (default 0.5)
Salinity	Range	0.00~10.00 psu, 0.00~10.00 ppt, 0.00~1.00%	0.00~42.00 psu, 0.00~80.00 ppt, 0.00~8.00%
	Resolution	0.01	0.01
	Accuracy	$\pm$ 1% F.S.	$\pm$ 1% F.S.
Resistivity	Range	0.00~10.00 M $\Omega$	0.00~1.00 M $\Omega$
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	$\pm$ 1% F.S.	$\pm$ 1% F.S.
Conductivity Ash	Range	0~100%	0~100%
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	$\pm$ 1% F.S.	$\pm$ 1% F.S.
	Measurement Modes	ICUMSA GS1/3/4/7/8-13, GS2/3-17	ICUMSA GS1/3/4/7/8-13, GS2/3-17

Model		S60
Dissolved Oxygen	Range	0.00~20.00 mg/L, 0.0~200.0% saturation
	Resolution	0.01 mg/L, 0.1%
	Accuracy	$\pm$ 0.2 mg/L, $\pm$ 2.0%
	Calibration	1 or 2 points
	Temperature Compensation	0~50°C/32~122°F, automatic
	Barometric Pressure Correction	60.0~113.3 kPa/450~850 mmHg, manual
	Salinity Correction	0.0~50.0 g/L, manual
	Measurement Modes	Dissolved oxygen, BOD (biochemical oxygen demand), OUR (oxygen uptake rate), SOUR (specific oxygen uptake rate)

For all of S series testers		
General Specifications	Stability Criteria	Fast, standard, slow
	Measurement Modes	Continuous or auto-read
	Timed Interval Readings	10, 30, 60, 300 seconds or off
	Calibration Due Alarm	1 to 99 days or off
	Data Transfer	Send to memory or printer
	Power Requirements	2 $\times$ 1.2V lithium batteries or AAA batteries