

**SM900**  
*BENCHTOP MULTIPARAMETER METER*



DESCRIPTION

High accuracy multiparameter meter is suitable to measure pH, ORP, ion concentration, conductivity, total dissolved solids (TDS), salinity, resistivity, and dissolved oxygen (DO). Widely used in quality control, environmental monitoring, chemical analysis, universities, research institutes, etc.

TECHNICAL PARAMETERS	
CALIBRATION DUE ALARM	COMMUNICATION INTERFACE
1 to 31 days	USB
DISPLAY	DIMENSIONS
LCD	210 x 188 x 60 mm
MEMORY	WEIGHT
500 data sets	1.5 kg
CONNECTOR	POWER SUPPLY
BNC; 6-pin mini-DIN; 3.5 mm jack socket	DC 5V

pH	
RANGE	CALIBRATION POINTS
-2.000 to 20.000 pH	1 to 5 points (USA, NIST or DIN)
ACCURACY	TEMPERATURE COMPENSATION
±0.002 pH	0 to 100°C, 32 to 212°F (manual or automatic)
RESOLUTION	
0.001, 0.01, 0.1 pH	

ORP (mV)	
RANGE	RESOLUTION
-1999.9 to 1999.9 mV	0.1, 1 mV
ACCURACY	CALIBRATION POINTS
±0.2 mV	1 point (only for relative mV mode)

ION CONCENTRATION	
RANGE	ACCURACY
0.001 to 19,999 ppm, mg/L, mol/L (depending on the range of ISE)	±0.5% F.S. (monovalent); ±1% F.S. (divalent)
RESOLUTION	CALIBRATION POINTS
0.001, 0.01, 0.1, 1	2 to 5 points
MEASUREMENT UNITS	CALIBRATION SOLUTIONS
ppm, mg/L and mol/L	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000 ppm, mg/L, mol/L



CONDUCTIVITY	
ACCURACY	TEMPERATURE COMPENSATION
±0.5% F.S.	0 to 100°C; 32 to 212°F (manual or automatic)
RESOLUTION	TEMPERATURE COEFFICIENT
0.01, 0.1, 1	0.0 to 10.0%/°C
CALIBRATION POINTS	COMPENSATION MODE
1 to 5 points	Lineal or non-lineal (pure water)
CALIBRATION SOLUTIONS	CELL CONSTANT
10 µS/cm, 84 µS/cm, 1413 µS/cm, 12.88 mS/cm, 111.8 mS/cm	K= 0.1, 1, 10
MEASUREMENT UNITS	REFERENCE TEMPERATURE
µS/cm, mS/cm	20°C or 25°C
RANGE	

0.01 to 20 µS/cm, 20 to 200 µS/cm, 200 to 2000 µS/cm, 2 to 20 mS/cm, 20 to 200 mS/cm

TDS	
RANGE	RESOLUTION
0 to 10.00, 100.0, 1000 ppm	0.01, 0.1, 1
ACCURACY	TDS CONVERSION FACTOR
±1% F.S.	0.4 to 1.0

SALINITY	
RANGE	RESOLUTION
0.00 to 42.00 psu; 0.00 to 80.00 ppt	0.01
ACCURACY	MEASUREMENT MODES
±1% F.S.	Practical salinity (psu); seawater (ppt)

RESISTIVITY	
RANGE	RESOLUTION
0.00 to 20.00 MΩ	0.01, 0.1
ACCURACY	
±1% F.S.	

DO	
RANGE	TEMPERATURE COMPENSATION
0.00 to 20.00 mg/L (ppm)	0 to 50°C, 32 to 122°F (automatic)
ACCURACY	SALINITY CORRECTION
±0.2 mg/L	0.0 to 50.0 g/L
RESOLUTION	PRESSURE CORRECTION
0.01, 0.1	60.0 to 112.5 kPa, 450 to 850 mmHg
CALIBRATION POINTS	
1 or 2 points	

% SATURATION OF OXYGEN	
RANGE	RESOLUTION
0.0 to 200.0%	0.1, 1
ACCURACY	
±2.0%	



## KEY FEATURES

- Benchtop meter designed for professional and comprehensive use.
- Equipped with a large backlit LCD display.
- Auto-power off, reset, calibration due alarm, and hold functions.
- Automatic temperature compensation ensures accurate readings over the entire range.
- Intuitive control panel with stable indicator which indicates the measured value has stabilized.
- USB communication interface for data transfer and timed interval readings.

## STANDARD ACCESSORIES

- pH electrode
- Conductivity electrode
- Dissolved oxygen probe
- Temperature probe
- Buffer pouches
- Conductivity standard solutions
- DO electrolyte solution
- DO membrane cap
- Electrode holder
- USB cable
- Power adapter

## OPTIONAL ACCESSORIES

- Ion-selective electrodes and ORP electrode