

SM900P
PORTABLE MULTIPARAMETER METER



DESCRIPTION

High-performance portable multiparameter meter is an excellent choice for measuring pH, ORP, ion concentration, conductivity, total dissolved solids (TDS), salinity, resistivity, and dissolved oxygen (DO). Ideal for environmental monitoring, quality control, chemical analysis, universities, field testing and outdoor applications.

TECHNICAL PARAMETERS

CALIBRATION DUE ALARM

1 to 31 days

DISPLAY

LCD

MEMORY

500 data sets

CONNECTOR

BNC; 6-pin mini-DIN; 3.5 mm jack socket

COMMUNICATION INTERFACE

USB

DIMENSIONS

170 x 85 x 30 mm

WEIGHT

300 g

POWER SUPPLY

3 x 1.5V AA batteries (NOT included)

pH

RANGE

-2.000 to 20.000 pH

ACCURACY

±0.002 pH

CALIBRATION POINTS

1 to 5 points (USA, NIST or DIN)

TEMPERATURE COMPENSATION

0 to 100°C, 32 to 212°F (manual or automatic)

ORP (mV)

RANGE

-1999.9 to 1999.9 mV

ACCURACY

±0.2 mV

CALIBRATION POINTS

1 point (only for relative mV mode)

ION CONCENTRATION

RANGE

0.001 to 19,999 ppm, mg/L, mol/L (depending on the range of ISE)

CALIBRATION POINTS

2 to 5 points

CALIBRATION SOLUTIONS

0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000 ppm, mg/L, mol/L

ACCURACY

±0.5% F.S. (monovalent); ±1% F.S. (divalent)

MEASUREMENT UNITS

ppm, mg/L and mol/L



Finland Technology

CONDUCTIVITY

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

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

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
CALIBRATION POINTS	PRESSURE CORRECTION
1 or 2 points	60.0 to 112.5 kPa, 450 to 850 mmHg

% SATURATION OF OXYGEN

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



KEY FEATURES

- Compact design is ideal for outdoor applications.
- Large LCD display with battery indicator, easy to view parameters.
- Automatic temperature compensation ensures accurate readings over the entire range.
- Auto-power off, reset, calibration due alarm, and hold functions.
- 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

- Carrying case
- pH electrode
- Conductivity electrode
- Dissolved oxygen probe
- Temperature probe
- Buffer pouches
- Conductivity standard solutions
- DO electrolyte solution
- DO membrane cap
- Electrode clip

OPTIONAL ACCESSORIES

- Ion-selective electrodes and ORP electrode.