

949 pH Meter

Benchtop instrument for the determination of pH, mV, and ORP



PEOPLE YOU CAN TRUST



Compact, fast, and reliable to use

The 949 pH meter is the ideal benchtop pH meter for fast and reliable pH measurements. It is compatible with all analogue pH electrodes from Metrohm. Thanks to predefined buffer tables it can be calibrated quickly and reliably. Several additional features like mV or ORP measurements provide for easy and convenient results in the laboratory.





CLEAR DISPLAY OF THE MEASURED VALUE

- Backlit LCD display
- Easy-to-read presentation of results
- Brightness of display can be adjusted

RELIABLE DATA ACQUISITION

- Output of measured values with time and date
- Access to calibration data
- Calibration notification

CALIBRATION WITH INTERNAL BUFFER LISTS

- Guided pH calibration
- Three-point calibration with Metrohm, USA and NIST buffers
- Two-point calibration with user-defined buffers

REPRODUCIBLE RESULTS

- Stability criteria can be adjusted
- Stability of the measurement signal is displayed
- Precise measurements

EASY DATA OUTPUT

- Printer connection via RS232 interface
- PC connection via RS232 interface
- Efficient data exchange and documentation

CONTINUOUS MONITORING OF YOUR PROCESS

- Continuous recording of the measurement process
- Direct output to the printer
- Automatic temperature compensation with temperature sensor Pt1000

Unitrode

THE RIGHT ELECTRODE FOR YOUR APPLICATION







Flat membrane

Appliction field	Simple sample matrix	Semisolid samples	pH measurements on surfaces
Matrix examples	Surface water (rivers, lakes, creeks), fishponds, aqua- culture, wastewater	Cheese, fruits, jams, meat, dough, ointments, lotions, gels	Skin, paper, leather, petri dishes, soil and water suspensions
Special features and benefits	 Robust plastic shaft Glass membrane shielded by protectors 	Mainenance-freeSensor lifetime indicatorEasy to clean	 Minimum immersion depth 1 mm
Electrode without temperature sensor	_	6.0226.100	6.0256.100
Electrode with temperature sensor	6.0228.000	6.00226.600	_





Porotrode





Smallest sample volumes	Protein containing samples	Poorly buffered samples. Ion deficient samples	Strongly alkaline or acidic samples, abrasive samples
Miktotiter plates, nutrient media, clinical samples	Milk, curd, joghurt, soja milk, tofu, nutrient media	Drinking water, ultra-pure water	Fruit juices, ore slurries, effluents from mines, slurries, process waters
- Smallest electrode diameter 3 mm	Insensitive to blocking of the diaphragm by proteinsViscous samples	 Short response time Electrolyte can be freely selected Minimal electrolyte outflow 	Robust membraneTolerates high temperaturesInsensitive to contamination
6.0224.100	6.0235.200	6.0253.100	6.0259.100
_	6.00235.600	6.0257.600	6.0258.600

TECHNICAL SPECIFICATIONS

pH measuring range	-2 16.00
Reslution	0.1/0.01
Accuracy	±0.02
Calibration points	1 3 Auto, +2 Custom
Buffer recognition	Metrohm, USA, NIST
Guided calibration	Yes
Calibration report	Yes
Stability criteria	Yes: low, mid, high
mV measuring range	-1000 +1900 mV
Resolution	1/0.1 mV
ORP calibration point	1 point = 250 mV
Temperature measuring range	-10 +110 °C
Resolution	0.1 °C
Accuracy	±0.5 °C
Temperature compensation	0 100 °C

GLP		Yes
Calibration monit	oring	Yes
Internal memory		1000 Datapoints
Display	High-definition co	olored backlight LCD
Brightness adjust	ment	Yes
IP protection		IP54
Output		RS 232
Power supply		5 V Power adapter
Input voltage		100 240 V
Working conditio	n	0 +45 °C
Dimensions		160 x 140 x 45 mm
Weight		380 g

ORDERING INFORMATION

949 pH Meters		
2.949.0210	949 pH Meter with electrode holder without electrode	
2.949.0220	949 pH Meter with electrode holder and Solitrode with fix cable	
6.2104.020	Electrode cable with socket G, 1m for electrodes without temperature sensor	
6.2104.600	Electrode cable with socket U, 1m for electrodes with temperature sensor	
Separate temperature sensor		
6.1110.100	Pt1000 temperature sensor	
6.2104.140	Sensor cable for Pt1000, 1m for temperature sensors	
Buffer		
6.2307.230	Mixed buffer solutions pH 4.00/7.00/9.00 (25 °C) in single use sachets, colourless, box of 3 x 10 x 30 mL	
6.2307.100	Buffer solution pH 4 (500 mL)	
6.2307.110	Buffer solution pH 7 (500 mL)	
6.2307.120	Buffer solution pH 9 (500 mL)	
Printer		
2.143.0200	TX-900MH impact printer	