



+27 60 999 9140  
 info@microanalytica.co.za  
 489 Jacqueline Drive, Garsfontein  
 Pretoria, Gauteng, 0081

ANALYTICAL EXCELLENCE...

www.microanalytica.co.za

Portable pH / ORP Meter

FEATURES: MA-pH220

- 1 to 3 points calibration with automatic recognition for USA and NIST buffers
- Automatic electrode diagnosis indicates replacement of pH electrode
- Automatic temperature compensation ensures accurate readings
- Auto-read function senses and locks the measurement endpoint
- Setup menu allows for setting the pH buffer set, number of calibration points, temperature unit, auto power off etc
- Reset function available to default instrument to factory settings
- Expanded memory stores or recalls up to 100 data sets
- USB communication interface for data transfer

FEATURES: MA-pH221

pH:

- 1 – 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows pH slope and offset
- Automatic temperature compensation ensures accurate readings
- Calibration reminder

ORP:

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



MA-pH220

MA-pH221

**GENERAL FEATURES:**

- Auto read function senses and locks the measurement endpoint
- Auto power off conserves battery life
- Setup menu allows setting the pH buffer set, number of calibration points, resolution, stability criteria, temperature unit, date and time etc
- Reset function available to default instrument to factory settings
- Expanded memory stores or recalls up to 150 data sets
- USB communication interface for data transfer

**Accessories:**

pH Electrode, temperature probe, pH Buffer solutions (pH4.01/7.00/10.01) and carrying case

**MODEL SPECIFICATIONS:**

Model	MA-pH220	MA-pH221
pH Range	-2.00~20.00pH	-2.000~20.000pH
pH Accuracy	±0.01pH	±0.002pH
pH Resolution	0.01pH	0.1, 0.01, 0.001pH, selectable
pH Calibration Points	1 ~ 3 points	1~5 points
pH Buffer Options	USA (4.01/7.00/10.01), NIST (4.01/6.86/9.18)	USA (pH1.68/4.01/7.00/10.01/12.45); NIST (pH1.68/4.01/6.86/9.18/12.45); DIN (pH1.09/4.65/6.79/9.23/12.75) or 2 custom buffers
ORP mV Range	-1999~1999mV	-1999.9~1999.9mV
ORP mV Accuracy	±1mV	±0.2mV
ORP Resolution	1mV	0.1, 1mV, selectable
ORP Calibration Points	/	1 point
Temp. Range	0~105°C/32~221°F	
Temp. Accuracy	±0.5°C/±0.9°F	
Temp. Resolution	0.1°C/0.1°F	
Temp. Offset Calibration	1 point, reading ±10°C	
Temp. Compensation	0~100°C, manual or automatic	
Stability Criteria	/	Low or High
Calibration Due Alarm	/	1 to 31 days or Off

Slope/Offset Display	Yes	
Hold Function	Manual or auto-endpoint	
Auto Off	30 minutes after last key pressed	10, 20 or 30 minutes after last key pressed
Memory	100 data sets	500 data sets
Communication Interface	USB	
Connector	BNC, 3.5mm jack socket	
Display	Custom LCD (80 x 60mm)	
Power Requirements	3 x 1.5V "AA" batteries or DC5V power adapter	
Dimensions (W*D*H) mm	170*85*30	
Package Size (W*D*H) mm	475*155*350	
Net Weight (g)	300	
Gross Weight (kg)	2	