

# A120/130/131 Professional pH/ORP/Ion Meter



## MEASUREMENT PARAMETERS

- A120 meter: pH, mV, Relative mV, Temperature
- A130 meter: pH, mV, Relative mV, Ion Concentration, Water Hardness, Temperature
- A131 meter: Ion Concentration, Water Hardness, mV, Temperature

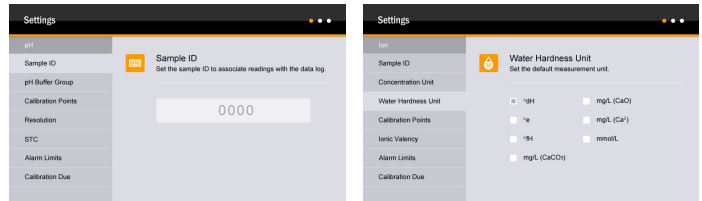
## FEATURES

### pH:

- 1 to 5 points push-button calibration with auto-buffer recognition.
- Selectable pH buffer group (USA/NIST/DIN) or using the custom calibration solutions.
- Automatic electrode diagnosis with pH slope and offset display.
- Automatic Temperature Compensation provides accurate reading over the entire pH range.
- Solution Temperature Coefficient compensates for the pure water samples and references the pH to 25°C.
- Limit alarm alerts when reading exceeds range.

### ORP:

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



### ION:

- Selectable ion measurement methods, including the direct reading, known addition, known subtraction, sample addition and sample subtraction.
- Selectable concentration units, including the ppm, mg/L, mol/L and mmol/L.
- 2 to 5 points calibration, providing the 8 concentration points can be selected.
- Automatically recognizes the ion selective electrodes, does not need to specify type of ion.
- Electrode management is capable of storing the 3 slopes and recalling the calibration data of each electrode.
- Calibration report provides the details of the calibration standard and slope.

### WATER HARDNESS:

- 2 to 5 points calibration from low to high concentrations.
- Selectable measurement units (German degree, English degree, French degree, mg/L and mmol/L) are used for professional water hardness measurements.

### GENERAL:

- Calibration Due Reminder prompts user to calibrate the meter regularly.
- Stability indicator shows when a measurement is recognized as stable.
- Auto-Read feature senses and locks the measurement endpoint.
- Interval Readings automatically send the measurement data to the computer or printer.
- Password protection prevents the unauthorized calibration and settings.
- Expanded memory stores and recalls up to 1000 data sets.
- Stored readings can be transferred into the computer by USB communication interface.
- Reset feature automatically resumes all settings back to factory default options.

## SPECIFICATION

Model			A120	A130	A131
pH	Measuring Range	-2.000~20.000pH	•	•	—
	Accuracy	±0.002pH	•	•	—
	Resolution	0.001, 0.01pH	•	•	—
	Calibration Points	1~5 points	•	•	—
	pH Buffer Options	USA, NIST, DIN or Custom	•	•	—
mV	Measuring Range	±2000mV	•	•	•
	Accuracy	±0.2mV	•	•	•
	Resolution	0.1mV	•	•	•
	Calibration Points	1 point, only for relative mV mode	•	•	—
	Measurement Modes	Relative and Absolute mV	•	•	—
Ion	Measuring Range	0.001~30000, depending on the range of ion selective electrode	—	•	•
	Measurement Units	ppm, mg/L, mol/L, mmol/L	—	•	•
	Accuracy	±0.5% F.S (Monovalent), ±1% F.S (Divalent)	—	•	•
	Resolution	0.001, 0.01, 0.1, 1	—	•	•
	Calibration Points	2~5 points	—	•	•
	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000ppm, mg/L, mol/L, mmol/L	—	•	•
Water Hardness	Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction	—	•	•
	Measuring Range	0.05~200mmol/L, 0~1120°dH, 0~1404°e, 0~2000°FH, 0~8000mg/L (Ca <sup>2+</sup> )	—	•	•
	Accuracy	±1% F.S	—	•	•
	Resolution	0.001, 0.01, 0.1, 1	—	•	•
	Calibration Points	2~5 points	—	•	•
Temperature	Calibration Solutions	0.01, 0.1, 1, 10, 100mmol/L	—	•	•
	Measuring Range	0~105°C, 32~221°F	•	•	•
	Accuracy	±0.5°C, ±0.9°F	•	•	•
	Resolution	0.1°C, 0.1°F	•	•	•
General	Calibration Points	1 point	•	•	•
	Temperature Compensation	0~100°C, 32~212°F, Manual or Automatic	•	•	•
	Data Hold	Manual or Auto-Endpoint	•	•	•
	Stability Criteria	Standard or High-accuracy	•	•	•
	Interval Readings	10, 30, 60 seconds, 10, 30 minutes or Off	•	•	•
	Calibration Due Alarm	1 to 31 days or Off	•	•	•
	Memory	Stores up to 1000 data sets	•	•	•
	Output	USB communication interface	•	•	•
	Display	7 inch TFT LCD	•	•	•
	Power Requirements	DC12V/2A power adapter	•	•	•
Dimensions and Weight	240(L)×220(W)×80(H)mm, 1.7kg	•	•	•	

## METER INCLUDES

- A120 and A130 meters: pH electrode, temperature probe, pH buffer pouches (4.01/7.00/10.01), electrode holder, power adapter.
- A131 meter: ion selective electrode, temperature probe, standard solutions, electrode holder, power adapter.