

A Series Laboratory pH/ORP/Ion Meter

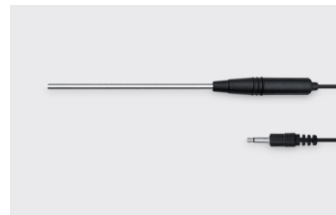


Measurement Parameters

- A120: pH, mV, relative mV, temperature
- A130: pH, mV, relative mV, ion concentration, water hardness, temperature
- A131: Ion concentration, water hardness, mV, temperature

Features

- pH
 - 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
 - Automatic electrode diagnosis shows the pH slope and zero offset
 - Solution temperature coefficient compensates for pure water measurements and references the pH to 25°C
- ORP
 - 1 point offset calibration allows adjusting the displayed value to a known standard
 - Relative and absolute millivolt modes ensure the reliable ORP measurements



- Ion Concentration
 - 2 to 5 points calibration, including the selection of 8 concentration points
 - Electrode management can store and recall up to 3 electrode parameters
 - Automatic electrode diagnosis shows the calibration points and electrode slopes
 - Selectable ion measurement methods (direct reading, known addition/subtraction, sample addition/subtraction) and concentration units (ppm, mg/L, mol/L, mmol/L)
- Water Hardness
 - 2 to 5 points calibration from low to high concentrations
 - Selectable measurement units (german degree, english degree, french degree, mmol/L, mg/L) are used for professional water hardness measurements
- General Features
 - Automatic temperature compensation ensures accurate readings over the entire range
 - Auto-read function senses and locks the measurement endpoint
 - Timed interval readings send measurement data to a PC or printer
 - Limit alarm automatically alerts when measurements exceed the specified range
 - Calibration due alarm reminds users to calibrate the meter regularly
 - Password protection prevents unauthorized calibration and settings
 - Expanded memory stores or recalls up to 1000 data sets
 - DAS software is capable of receiving and exporting data to Excel
 - Reset function automatically restores all settings to the factory defaults



Specifications

Model			A120	A130	A131
pH	Range	-2.000...20.000 pH	•	•	—
	Resolution	0.001, 0.01, selectable	•	•	—
	Accuracy	±0.002 pH	•	•	—
	Calibration	1...5 points	•	•	—
	pH Buffer Options	USA (1.68/4.01/7.00/10.01/12.45), NIST (1.68/4.01/6.86/9.18/12.45), DIN (1.09/4.65/6.79/9.23/12.75), 5 custom buffers	•	•	—
ORP	mV Range	-2000.0...2000.0 mV	•	•	•
	Relative mV Range	-2000.0...2000.0 mV	•	•	—
	Resolution	0.1	•	•	•
	Accuracy	±0.2 mV	•	•	•
	Calibration	1 point	•	•	—
Ion	Range	0.001...30000 (depending on the electrode range)	—	•	•
	Resolution	0.001, 0.01, 0.1, 1	—	•	•
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	—	•	•
	Measurement Units	ppm, mg/L, mol/L, mmol/L	—	•	•
	Calibration	2...5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	—	•	•
	Measurement Methods	Direct reading, known addition/subtraction, sample addition/subtraction	—	•	•
	Electrode Management	1...3	—	•	•
Water Hardness	Range	0.05...200 mmol/L, 0...1122°dH, 0...1404°e, 0...2000°fH, 0...8000 mg/L (Ca ²⁺)	—	•	•
	Resolution	0.001, 0.01, 0.1, 1	—	•	•
	Accuracy	±1% F.S.	—	•	•
	Calibration	2...5 points (0.01, 0.1, 1, 10, 100 mmol/L)	—	•	•
Temperature	Range	0...105°C/32...221°F	•	•	•
	Resolution	0.1	•	•	•
	Accuracy	±0.5°C/±0.9°F	•	•	•
	Offset Calibration	1 point, reading ±10°C	•	•	•
General	Temperature Compensation	0...100°C, manual or automatic	•	•	•
	Solution Temperature Coefficient	25°C	•	•	—
	Stability Criteria	Standard or high-accuracy	•	•	•
	Calibration Due Alarm	1 to 31 days or off	•	•	•
	Interval Readings	10/30/60 seconds, 10/30 minutes or off	•	•	•
	Password Protection	4 digits	•	•	•
	Memory	1000 data sets	•	•	•
	Communication Interface	USB	•	•	•
	Connector	BNC, 3.5 mm jack socket	•	•	•
	Display	7 inches TFT LCD	•	•	•
	Power Supply	12V DC power adapter	•	•	•
	Dimensions	240(L)×220(W)×80(H) mm	•	•	•
	Weight	1.7 kg	•	•	•

Ordering Information

- A120/130-**S**: Meter, E201 pH electrode, temperature probe, pH buffer solutions, electrode holder, power adapter
- A120/130-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer solutions, electrode holder, power adapter
- A131: Meter, ion selective electrode, temperature probe, 100 and 1000 ppm standard solutions, ionic strength adjuster, electrode holder, power adapter