

# Portable Ion Meter

## Features:

- 2 to 5 points calibration from low to high concentrations.
- Direct ion concentration readout simplifies the elaborate measurement process.
- Selectable multiple concentration units include the ppm, mg/L and mol/L.
- mV measurement mode allows checking the performance of ion selective electrode.
- Automatic Temperature Compensation ensures accurate measured values.
- Calibration Due Reminder prompts user to calibrate the meter regularly
- Stability indicator automatically shows current measurement status.
- Auto-Hold function freezes stable reading for easy viewing and recording.
- Selectable temperature unit (°C or °F) meets different application requirements.
- Automatic electrode diagnosis shows offset and electrode slope.



- Help message as a operational guide that helps you quickly begin using the meter.
- System menu allows setting the 8 parameters, including the ion valence, number of calibration points, stability condition, etc.
- Reset feature automatically resumes parameters back to factory default options.
- Expanded memory stores and recalls up to 500 readings.
- Built-in real-time clock stamps stored data to meet GLP standard.
- Stored data can be transferred into computer by USB communication interface.

## Meter Includes:

Ion Selective Electrode (Chosen by the customer), temperature probe, batteries and carrying case.

## Specifications:

<b>Model</b>	<b>Analytical-PIM-3321</b>
Ion Concentration Range	Refer to the range of ISE
Ion Concentration 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
Temperature Compensation	0~100°C, 32~212°F, Manual or Automatic
mV Range	-1999.9~1999.9mV
mV Accuracy	+0.2mV
Resolution	0.1, 1mV, Selectable
Hold Function	Manual or Automatic
Stability Conditions	Low or High
Power Off	Manual or Automatic (10, 20, 30 minutes)
Memory	Stores up to 500 data sets
Output	USB Communication Interface
Connector	BNC
Power Requirements	3×1.5V "AA" batteries or DC5V power adapter
Dimensions	170(L)×85(W)×30(H)mm
Weight	300g

## Ion Selective Electrode Features:

- Combination ion selective electrode
- No reference electrode needed
- Solid state sensors Ideal for unskilled operatives
- No filling solution required
- Can be left dry for long periods
- Long lifetime electrode

Model	Ion	Concentration (mol/L)	Limits (ppm)	pH Range	Temperature Range
NH <sub>4</sub>	Ammonium	5×10 <sup>-6</sup> ~1	0.1~18000	4~10	0~50°C
Br	Bromide	5×10 <sup>-6</sup> ~1	0.4~79900	1~12	0~80°C
Cd	Cadmium	1×10 <sup>-6</sup> ~0.1	0.01~11200	2~12	0~80°C
Ca	Calcium	5×10 <sup>-7</sup> ~1	0.02~4000	2.5~11	0~40°C
CL	Chloride	5×10 <sup>-6</sup> ~1	1.8~35500	2~12	0~80°C
Cu	Cupric	1×10 <sup>-8</sup> ~0.1	0.006~6400	2~12	0~80°C
Cn	Cyanide	5×10 <sup>-6</sup> ~0.01	0.2~260	10~14	0~80°C
F	Fluoride	1×10 <sup>-6</sup> ~Saturation	0.02~Saturation	5~7	0~80°C
I	Iodide	5×10 <sup>-8</sup> ~1	0.06~127000	0~14	0~50°C
Pb	Lead	1×10 <sup>-8</sup> ~0.1	0.2~20700	4~7	0~80°C
NO <sub>3</sub>	Nitrate	7×10 <sup>-6</sup> ~1	0.4~62000	2.5~11	0~50°C
K	Potassium	1×10 <sup>-6</sup> ~1	0.04~39000	2~12	0~40°C
Ag	Silver	1×10 <sup>-7</sup> ~1	0.01~107900	2~12	0~80°C
Na	Sodium	1×10 <sup>-5</sup> ~1	0.1~23000	>9	0~80°C
S	Sulphide	1×10 <sup>-7</sup> ~1	0.003~23100	2~12	0~80°C
NH <sub>3</sub>	Ammonia	1×10 <sup>-6</sup> ~1	0.02~17000	11	0~50°C

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### About Analytical Technologies





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