

PH/ION METERS



PH/ION METERS

A pH/ion meter is also called an acidity meter. It is used for measuring the concentration of ions and pH of the sample solution. They often use Ion selective electrodes which respond only to the specific ions in the solution while pH is detected by the potentiometric method. These are majorly used in the food & beverages industries and pharmaceutical sectors for performing quality control tests.

Used in General laboratory testing, Drinking water, General industrial processing, Wastewater treatment, Food & beverage testing,.

Also known as pH/Ion meter.

LTMET9 PH/ION METER



SPECIFICATIONS

Model	LTMET9-1	LTMET9-2	LTMET9-3	LTMET9-4
Dissolved Oxygen Concentration				
Sensor Type	Polarographic	Optical	-	-
Range	0.00 to 99.99 mg/L	0.00 to 20.00 mg/L	-	-
Resolution	2.01 mg/L	1.01mg/L	-	-
Accuracy	± 0.3 mg/L (0.00 to 20.00 mg/L) ± 10 % (20.00 to 99.99 mg/L)	±0.3 mg/L(0.00 to 20.00 mg/L)	-	-
Calibration Reminder	Yes	-	-	-
Calibration Points	Air-saturated water or zero point		-	-
Barometric Compensation	Yes	-	-	-
Manual Salinity Factor Correction	Yes	-	-	-
Saturation				
Range	(0.0 to 600.0)%	(0.0 to 200.0)%	-	-
Resolution	0.10 %		-	-
Accuracy	± 10.0 %		-	-
Temperature				
Range	-10 to 135 °C, 14 to 275 °F	0 to 50 °C	-5 to 110 °C, 23 to 230 °F	-10 to 135 °C, 14 to 275 °F
Unit	°C, °F	°C,	°C, °F	
Resolution	0.1		1.1	

Relative Accuracy	± 0.2		-	-
Accuracy	-	-	± 0.2	± 0.3
Measurement				
Reading Mode	AutoRead(Fast, Medium, Slow), Timed, Continuous		AutoRead(Fast, Medium, Slow), Timed, Continuous	
Reading Prompts	Reading, Stable, Locked	-	Reading, Stable, Locked	
Temp. Compensation	-	-	ATC, MTC	
Data Management				
Data Storage	1000 Groups		500 results each	501 results each
GLP Features	Yes			
Log Management	-	-	-	-
Inputs				
Temp./DO Probe	4-pin aviation connector			
pH Electrode	-	-	BNC(Q9)	
Outputs				
USB	USB 2.0 flash memory device, PC, scanner		PC	
Bluetooth	printer		-	-
RS 232	-	-	printer	-
RS 233	-	-	-	printer
USB, RS 232	-	-	-	-
Display Options				
Backlight	Yes			
Auto Shutdown	300, 600, 1200, 1800, 3600 sec, off		-	-
IP Rating	IP65		IP54	IP55
Date and Time	Yes			
Auto Shut-down	-	-	1~60 min, off	2~60 min, off
General				
Power	Rechargeable Lithium batter; AC Adapter, 100-240 V AC input, DC5V output		AC Adapter, 100-240 V AC input, DC 9 V output	
Dimensions	90 x 255 x 40 mm		242x195x68 mm	243x195x68 mm
Weight	500 g(1.1 lb)	500g(1.1 lb)	900 g(1.98 lb)	901 g(1.98 lb)
pH				
Range	-	-	-2.00 to 20.00 pH	-2.000 to 20.000 pH
Resolution	-	-	0.1, 0.01 pH	0.1, 0.01, 0.001 pH
Accuracy	-	-	± 0.01 pH	± 0.002 pH
Calibration Points	-	-	Up to 5	Up to 6
Standard Customization	-	-	Yes	
Standard Recognition	-	-	NIST, GB and DIN buffers	NIST, GB, DIN buffers
Slope Limit	-	-	-	-
Calibration Reminder	-	-	-	-
mV				
Range	-	-	-2000.0 to 2000.0 mV	-2000.00 to 2000.00 mV
Resolution	-	-	0.1 mV	0.1, 0.01 mV
Accuracy	-	-	± 0.3 mV or ± 0.1 % of reading whichever is greater	± 0.1 mV or ± 0.03 % of reading whichever is greater
pX				
Range	-	-	- 2.00 to 20.00	- 2.000 to 20.000 pX

Resolution	-	-	0.1, 0.01 pX	0.1, 0.01, 0.001 pX
Accuracy	-	-	±0.02 pX	±0.002 pX
Calibration Points	-	-	Up to 5	Up to 6
ISE				
Range	-	-	1E-9 to 9.999E9	1E-9 to 9.999E10
Unit	-	-	mol/L, mmol/L, g/L, mg/L, µg/L, ppm	
Resolution	-	-	Up to 4 significant digits	
Accuracy	-	-	± 0.5 %	± 0.3 %
Calibration Points	-	-	Up to 5	Up to 6
mV/ORP				
Range	-	-	-	-
Resolution	-	-	-	-
Accuracy	-	-	-	-
EH ORP Mode	-	-	-	-
ORP Calibration Points	-	-	-	-
Yes	-	-	-	-

Model	LTMET9-5	LTMET9-6	LTMET9-7
Dissolved Oxygen Concentration			
Sensor Type	-	-	-
Range	-	-	-
Resolution	-	-	-
Accuracy	-	-	-
Calibration Reminder	-	-	-
Calibration Points	-	-	-
Barometric Compensation	-	-	-
Manual Salinity Factor Correction	-	-	-
Saturation			
Range	-	-	-
Resolution	-	-	-
Accuracy	-	-	-
Temperature			
Range	- 5 to 130 °C	-5 to 110 °C, 23 to 230 °F	- 10 to 135 °C, 14 to 275 °F
Unit	°C	°C, °F	
Resolution	0.1		
Relative Accuracy	-	± 0.2	
Accuracy	± 0.1	-	-
Measurement			
Reading Mode	AutoRead(Fast, Medium,Slow), Timed, Continuous	AutoRead(Fast, Medium, Slow), Timed, Continuous	AutoRead(Fast, Medium,Slow), Timed, Continuous
Reading Prompts	Reading, Stable, Locked		
Temp. Compensation	ATC, MTC		-
Data Management			
Data Storage	1000 Groups	1000 results each	1000 Groups
GLP Features	Yes		
Log Management	Yes	-	-
Inputs			
Temp./DO Probe	6-pin MiniDIN	4-pin aviation connector	

pH Electrode	BNC(Q9)		
Outputs			
USB	-	USB 2.0 flash memory device, PC,scanner	
Bluetooth	-	-	printer
RS 232	-	-	-
RS 233	-	-	-
USB, RS 232	USB 2.0 flash memory device, printer, PC	-	-
Display Options			
Backlight	Yes		
Auto Shutdown	-	300, 600, 1200, 1800, 3600 sec, off	-
IP Rating	IP54	IP65	
Date and Time	Yes	-	-
Auto Shut-down	1~60 min, off	-	300, 600, 1200, 1800, 3600 sec, off
General			
Power	AC Adapter, 100-240 V AC input, DC24V output	-	AC Adapter, 100-240 V AC input, DC 5 V output
Dimensions	280x280x130 mm	90x255x40 mm	
Weight	2500 g (5.51 lb)	500 g(1.1 lb)	
pH			
Range	-3.000 to 20.000 pH	-2.00 to 20.00 pH	-2.000 to 20.000 pH
Resolution	1.1, 0.01, 0.001 pH	0.1, 0.01 pH	0.1, 0.01, 0.001 pH
Accuracy	± 0.002 pH	± 0.01 pH	± 0.002 pH
Calibration Points	Up to 7	Up to 5	Up to 8
Standard Customization	Yes		
Standard Recognition	NIST,GB,DIN,USA and MERK buffers	NIST, GB and DIN buffers	USA, NIST, MERK, JIS, GB and DIN buffers
Slope Limit	Yes	-	Yes
Calibration Reminder	-	-	Yes
mV			
Range	-	-2000.00 to 2000.00 mV	-
Resolution	-	0.1	-
Accuracy	-	± 0.3 mV or ± 0.1 %	-
pX			
Range	- 2.000 to 20.000 pX	- 2.00 to 20.00	- 2.000 to 20.000 pX
Resolution	0.1, 0.01, 0.001 pX	0.1, 0.01 pX	0.1, 0.01, 0.001 pX
Accuracy	± 0.002 pX	±0.02 pX	±0.002 pX
Calibration Points	Up to 6	Up to 5	Up to 6
ISE			
Range	0~19990	1E-9 to 9.999E9	1 E-9 to 9.999 E9
Unit	mol/L, mmol/L, g/L, mg/L, µg/L	mol/L, mmol/L, g/L, mg/L, µg/L, ppm	mol/L, mmol/L, g/L, mg/L, µg/L
Resolution	Up to 4 significant digits		
Accuracy	± 0.3 %	± 0.5 %	± 0.3 %
Calibration Points	Up to 6	Up to 5	Up to 8
mV/ORP			
Range	-2000.00 to 2000.00 mV	-	- 2000.00 to 2000.00 mV

Resolution	0.1, 0.01 mV	-	0.1, 0.01 mV
Accuracy	± 0.1 mV or ± 0.03 %	-	± 0.1 mV or ± 0.03 % of reading whichever is greater
EH ORP Mode	Yes	-	Yes
ORP Calibration Points	1~2 custom point (relative mV)	-	1 custom point (relative mV)
Yes	-	General: Power	-



LTMET9-1



LTMET9-2



LTMET9-3



LTMET9-4



LTMET9-5



LTMET9-6



LTMET9-7

LABTARE

Labtare Analytical Instruments

Email: info@labtare.com | Website: labtare.com