

# PRODUCT CATALOG



# PH/ION METER





#### PH/ION METER

An ion meter is a device which with the aid of electrochemical activity of ion electrodes measures the concentration of ions in a solution. It works by the means of selective ion electrodes and measuring ion activity capability of sensitive membrane of a measuring devices. A sensor electrode and a reference electrode are used to measure the ion concentration in a solution.

#### 500 PH/ION METER



## **SPECIFICATIONS**

Model	BMET-501	BMET-502	BMET-503	BMET-504
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	$\pm$ 0.3 mg/L (0.00 to 20.00 mg/L) $\pm$ 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	

results each	
results each	
results each	
results each	
-	
-	
-	
printer	
-	
-	
IP55	
60 min, off	
AC Adapter, 100-240 V AC input, DC 9 V output	
x195x68 mm	
1 g(1.98 lb)	
- 6(=:= - := )	
) to 20.000 pH	
.01, 0.001 pH	
0.002 pH	
Up to 6	
GB,DIN buffers	
-	
-	
0 to 2000.00 mV	
1, 0.01 mV	
V or ± 0.03 % of g whichever is greater	
0 to 20.000 pX	
.01, 0.001 pX	
0.002 pX	

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	BMET-505	BMET-506	BMET-507	
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 ℃	-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 me	mory 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	90x2	255x40 mm	
Weight	2500 g (5.51 lb)	50	0 g(1.1 lb)	
рН				
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 %	-	
рХ				
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	-





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