

# PH/ION METER



# PH/ION METER

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

Also known as Specific ion electrodes.

## MET51 PH/ION METER



### SPECIFICATIONS

Model	MET51-275	MET51-010	MET51-020	MET51-230
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	MET51-600	MET51-300	MET51-135
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	-



MET51-275



MET51-010



MET51-020



MET51-230



MET51-600



MET51-300



MET51-135

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