

pH/pX | Portable Meters



13-636-AP71A

13-636-AP72A

13-636-AP84A

13-636-AP85A

Selection Guide

accuMet®
Portable Meters

Model	AP71 pH/mV/Temperature	AP72 pH/mV/Temperature	AP84 pH/Temperature/ Dissolved Oxygen	AP85 pH/Temperature/ Conductivity/TDS
Display	Dual readout LCD; 2 1/4" x 1 1/2" (5.7 x 3.8cm). Measurement Characters: 3/8" H (0.4cm). Other Data: 5/16" H (0.3cm)			
Keypad/Controls	8-button	9-button	9-button	8-button
Special Features	Automatic endpoint recognition; selectable buffer sets; auto shutoff; Hold; Ready indicator; error messages	Expanded memory stores 50 readings, Automatic endpoint recognition; selectable buffer sets; auto shutoff; Hold; Ready indicator; error messages, real time clock	Displays probe diagnostics; auto shutoff; Hold; Ready indicator	Displays calibration points; slope/effective cell constant, auto endpoint; auto shutoff; Hold; Ready; error messages
Waterproofing	IP-67	IP-67	IP-67	IP-67
pH Mode				
Range	-2.00 to +16.00pH	-2.00 to +16.00pH	-2.00 to +16.00pH	-2.00 to +16.00pH
Resolution	0.01pH	0.01pH	0.01pH	0.01pH
Relative Accuracy	±0.01pH	±0.01pH	±0.01pH	±0.01pH
Auto Buffer Recognition	NIST*, DIN, and standard U.S. buffers	NIST, DIN, and standard U.S. buffers	NIST, DIN, and standard U.S. buffers	NIST, DIN, and standard U.S. buffers
Calibration Points	5 points (pH 1.68, 4.01, 7.01, 10.01, 12.45)	6 points (select from 3 sets: U.S.: pH 1.68; 4; 7; 10; 12.45; NIST: pH 1.68; 4.01; 6.86; 9.18; 12.45; DIN: pH 1.09; 2.06; 4.65; 6.79; 9.23; 12.75)	5 points (pH 1.68; 4.01; 7.00; 10.00, 12.45)	5 points (pH 1.68, 4.01, 7.00, 10.00, 12.45)
mV Mode				
Range	-2000 to +2000mV	-2000 to +2000mV	----	----
Resolution	0.1mV from 0 to ±400mV; 1mV beyond	0.1mV from 0 to ±400mV; 1mV beyond	----	----
Relative Accuracy	±0.2mV from 0 to ±400mV; ±2mV beyond	±0.2mV from 0 to ±400mV; ±2mV beyond	----	----
Temperature Mode				
Range	0.0° to 100.0°C	0.0° to 100.0°C (32.0° to 212.0°F)	0.0° to 50.0°C (32° to 122°F)	0.0° to 100.0°C (32° to 212°F)
Resolution	0.1°C	0.1°C (0.1°F)	0.1°C (0.1°F)	0.1°C (0.1°F)
Relative Accuracy	±0.5°C	±0.5°C (±0.5°F)	±0.3°C (±0.5°F)	±0.5°C (±0.5°F)
Temperature Compensation	Automatic or manual	Automatic or manual	Automatic; 0° to 50°C (32° to 122°F)	Manual or Automatic
Conductivity Mode				
Range	----	----	----	0.00µS to 199.9mS (5 ranges)
Resolution	----	----	----	0.01/0.1/1µS; 0.01/0.1mS
Relative Accuracy	----	----	----	±1% full scale
Calibration	----	----	----	Up to 5 points
TDS Mode				
Range	----	----	----	0.00ppm to 200ppt (6 ranges)
Resolution	----	----	----	0.01/0.1/1ppm; 0.01/0.1/1ppt
Relative Accuracy	----	----	----	±1% full scale
Calibration	----	----	----	Up to 5 points
DO Mode				
Range	----	----	0.00 to 20.00mg/L (ppm); 0.0 to 200.0% saturation	----
Resolution	----	----	0.01mg/L (ppm); 0.1% saturation	----
Relative Accuracy	----	----	±1.5% full scale	----
Calibration	----	----	One or two points	----
Inputs	BNC, Mini-phone ATC	BNC, Mini-phone ATC	6-pin, BNC, ATC	6-pin, BNC, ATC
Input Impedance	>10 ¹² ohms	>10 ¹² ohms	>10 ¹² ohms	>10 ¹² ohms
Electrical Requirements	4 AAA batteries	4 AAA batteries	4 AAA batteries	4 AAA batteries
Dimensions L x W x H	7 1/2 x 3 3/4 x 2 1/4" (19 x 9.5 x 5.7cm)	7 1/2 x 3 3/4 x 2 1/4" (19 x 9.5 x 5.7cm)	7 1/2 x 3 3/4 x 2 1/4" (19 x 9.5 x 5.7cm)	7 1/2 x 3 3/4 x 2 1/4" (19 x 9.5 x 5.7cm)
Net Weight	1.0 lb. (0.5kg)	1.0 lb. (0.5kg)	1.0 lb. (0.5kg)	1.0 lb. (0.5kg)
Meter Only:	13-636-AP71A	13-636-AP72A	13-636-AP84A	13-636-AP85A
Meter Kit:	13-636-AP71	13-636-AP72	13-636-AP84	13-636-AP85

Portable Meters

accumet* AP85 Portable Waterproof pH/Conductivity Meter

Durable, waterproof, dustproof—ideal for rough field applications

Measures pH, conductivity and TDS plus temperature. Switches between pH, conductivity and TDS with the press of a button. Dual-display LCD shows all parameters with temperature; recalls previous calibration points too.

- *Advanced set-up mode for customizing meter parameters*
- *Selectable automatic endpoint freezes reading immediately after stabilization*
- *HOLD button freezes reading*
- *Self-diagnostic: meter indicates when it is ready to operate, error messages alert operator to problems*
- *ISO 9001 certified manufacturer*

Powerful pH Mode

- *Recalls pH electrode slope and offset*
- *Has five-point calibration with automatic buffer recognition*

Conductivity and TDS Modes

- *Recalls and customizes effective cell constants for each range*
- *Autoranging for conductivity across five ranges*
- *Autoranging for TDS across six ranges*
- *Five-point calibration for $\pm 1\%$ full-scale accuracy*

Flexible Temperature Mode

- *Select temperature in $^{\circ}\text{C}$ or $^{\circ}\text{F}$*
- *Set coefficient from 0 to 10% for accurate compensation in almost any solution*
- *Manual or automatic temperature compensation*

Includes

Meter/Probe package includes meter, 1.0cm⁻¹ conductivity/temperature plastic-bodied probe with 3' (0.9m) long cable (13-620-AP54), All-in-One pH/temperature probe (13-620-AP55), four AAA batteries, and instruction manual.

Meter Kit package includes meter, 1.0cm⁻¹ conductivity/temperature plastic-bodied probe with 3' (0.9m) long cable (13-620-AP54), All-in-One pH/temperature probe (13-620-AP55), 4.00 and 7.00pH buffer solutions, 1413 μS conductivity calibration solution, sample bottle, four AAA batteries, instruction manual, and hard plastic carrying case.

Warranty: accumet AP85 is warranted to the end user to be free from defects in materials and workmanship under normal use for a period of three years. Call your Fisher Customer Service Representative for full details.



Service Agreements

Fisher Service Division offers several types of service agreements for the equipment featured here. For details on these agreements, equipment repairs and calibration services, see the Service Agreements section. For immediate assistance, call **1-800-395-5442**.



13-636-AP85A

Model	AP85
pH Mode	
Range	-2.00 to +16.00pH
Resolution	0.01pH
Relative Accuracy	$\pm 0.01\text{pH}$
Calibration	5 points (pH 1.68, 4.01, 7.00, 10.00, 12.45)
Conductivity Mode	
Range	0.00 to 19.99 μS , 0.0 to 199.9 μS , 0 to 1999 μS , 0.00 to 19.99mS, 0.0 to 199.9mS
Resolution	0.01 μS , 0.1 μS , 1 μS , 0.01mS, 0.1mS
Relative Accuracy	$\pm 1\%$ of FS
Cell Constant	1.0cm ⁻¹
TDS Mode	
Range	0.00 to 9.99ppm, 10.0 to 99.9ppm, 100 to 99ppm, 1.00 to 9.99ppt, 10.0 to 99.9ppt, 100 to 200ppt
Resolution	0.01ppm, 0.1ppm, 1ppm, 0.01ppt, 0.1ppt, 1ppt
Relative Accuracy	$\pm 1\%$ of FS
Temperature Mode	
Range	0 $^{\circ}$ to 100 $^{\circ}\text{C}$; 32 $^{\circ}$ to 212 $^{\circ}\text{F}$
Resolution	0.1 $^{\circ}\text{C}$; 0.1 $^{\circ}\text{F}$
Relative Accuracy	$\pm 0.5^{\circ}\text{C}$; $\pm 0.5^{\circ}\text{F}$
Compensation	Manual or Automatic
Display	Backlit dual-display LCD
Special Features	Displays calibration points, slope/effective cell constant, auto endpoint; auto shutoff, Hold function, Ready indicator, error messages
Dimensions (L x W x H)	7 1/2 x 3 3/4 x 2 1/4" (19 x 9.5 x 5.7cm)
Shipping Weight	1.4 lb. (0.6kg)
Meter/Probe	
Cat. No.	13-636-AP85A
Each	945.79
Meter Kit	
Cat. No.	13-636-AP85
Each	1021.69