

# New Fisher Scientific **accumet**<sup>®</sup> XL Series Benchtop Meters

*New Instruments With Features That Will Improve Productivity In Any Laboratory*

- » TFT color LCD provides crystal clear data from wide viewing angles and at a distance
- » Improved touch screen with glass/glass sensitivity
- » Connect one or two stirring probes; provides mixing without stir plates!
- » Bidirectional communication for LIMS connectivity
- » USB connectivity for use with keyboard, mouse, or other USB device
- » Upgradable application software
- » RJ45 Ethernet/Internet port – connect to Local Area Network (LAN) or Internet, print data to a network printer or surf the web
- » Calibrate with custom buffer values or automatically using one of five preset buffer groups
- » User prompts and context-specific “help” screens guide you through operation
- » Extensive setup screens allow customized settings to meet your specific needs
- » 3-year instrument warranty; register at [fishersci.com/accumet](http://fishersci.com/accumet)

- » Crowded lab bench space? Take advantage of the wall-mounting back panel
- » Do you share your meter with other departments or colleagues? Don't compromise! Create up to 10 password protected ID's; each includes memory to store 2000 data points. Base ID's on individual users, applications, or projects to keep data separate, and retain unique calibration and instrument settings

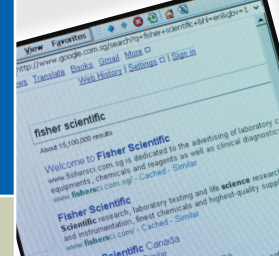


*Removable electrode arm can be mounted on either side of the meter, or add a second arm to facilitate multi-probe operation.*

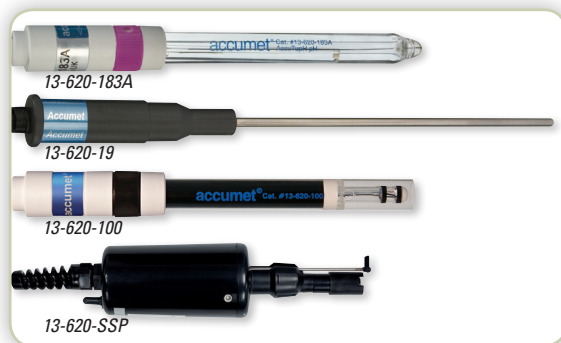


# Fisher Scientific accumet® XL600 pH/mV/Temp/ISE/DO/Conductivity Meter

*Quite Possibly The World's Best Meter*



- » Customize the XL600 to display 1, 2, 3 or 4 active measurements simultaneously – each with temperature!  
Channel 1 : pH, mV, or Ion Selective  
Channel 2 : pH, mV, or Ion Selective  
Channel 3 : Conductivity, TDS, Resistivity, or Salinity  
Channel 4 : Dissolved Oxygen/BOD/OUR/SOUR
- » Real-time graph provides outstanding detail of any parameter
- » DO mode calculates five-day BOD



"XL600 Deluxe" kit includes these electrodes.  
For ion selective electrodes (ISE), see page 14.

## Specifications and Ordering Information

<b>pH Mode</b>	
Range	-2.000 to 20.000
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.1 / 0.01 / 0.002 ±1 LSD
Auto Buffer Recognition	5 preset buffer groups + custom
<b>mV Mode</b>	
Range	±2000 mV / Rel mV
Resolution	0.1
Accuracy	±0.2
<b>Temperature Mode</b>	
Range	-5.0 to 105.0 °C (0 to 46.0 °C DO mode)
Resolution	0.1 °C (0.1 °F)
Accuracy	±0.2 °C (±0.3 °F)
<b>Ion Mode</b>	
Range	1 x 10 <sup>-6</sup> to 9.99 x 10 <sup>10</sup>
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.5 % full scale (monovalent ion) 1 % full scale (divalent ion)
<b>Conductivity Mode</b>	
Range	0 to 500.0 mS
Resolution	0.01 / 0.1 µS ; 0.001 / 0.01 / 0.1 mS
Accuracy	±1 % full scale
<b>TDS Mode</b>	
Range	0.050 ppm to 500 ppt (@ TDS factor 1.00)
<b>Salinity Mode</b>	
Range	0 to 80.0 ppt
<b>Resistivity Mode</b>	
Range	2.000 Ω to 20.0 MΩ
<b>DO Mode</b>	
<b>Concentration</b>	
Range	0 to 50 mg/L
Resolution	0.01, 0.1 mg/L
Relative Accuracy	±0.1 mg/L ±1 LSD, 0.1 % saturation
<b>% Saturation</b>	
Range	0 to 600 %
Resolution	0.1 %, 1 %
Relative Accuracy	±0.1 mg/L ±1 LSD, 0.1 % saturation
<b>Output</b>	RJ45, RS232, USB-A, mini-B USB, stirrer port (2)
<b>Language Selection</b>	English, Deutsch, 中文, Français, Italiano, & Español
<b>High / Low Alarms</b>	Yes, user selectable, visual & audible

**XL600 Deluxe Kit:** Includes meter, self-stirring BOD probe (13-620-SSP), TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

**XL600 Kit:** Includes meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

**XL600 Meter Only:** Includes meter, electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

Description	Catalog No.
XL600 Deluxe Kit	<b>13-636-XL600D</b>
XL600 Kit	<b>13-636-XL600</b>
XL600 Meter Only	<b>13-636-XL600A</b>
Fisher Scientific accumet® Benchtop Stirring Probe	<b>13-620-BSP</b>

**A complete lab in one instrument. Our top-of-the-line, research-grade touch screen meter measures and displays up to four channels! Unit features two pH/mV/ISE inputs along with one conductivity input (2-cell or 4-cell), as well as one dissolved oxygen input.**

Quite simply if you want the best, this is the instrument to put in your lab. Ask your Fisher Scientific representative how you can make your colleagues jealous with accumet, or visit [www.fishersci.com/accumet](http://www.fishersci.com/accumet).

**For best results, connect optional 13-620-BSP stirrer (see page 13) for efficient mixing and fast, accurate measurements!**

# Fisher Scientific accumet® XL500 pH/mV/Temp/ISE/Conductivity Meter

Multi-Channel Operation Simplifies Your Lab Work

- » Up to three channels measured and displayed simultaneously
- » TFT color LCD provides crystal clear data from wide viewing angles and at a distance
- » Improved touch screen with glass/glass sensitivity
- » Connect one or two stirring probes; provides mixing without stir plates!
- » Bidirectional communication for LIMS connectivity
- » USB connectivity for use with keyboard, mouse, or other USB device
- » Upgradable application software
- » RJ45 Ethernet/Internet port – connect to Local Area Network (LAN) or Internet, print data to a network printer or surf the web
- » Calibrate with custom buffer values or automatically using one of five preset buffer groups



## Specifications and Ordering Information

<b>pH Mode</b>	
Range	-2.000 to 20.000
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.1 / 0.01 / 0.002 ±1 LSD
Auto Buffer Recognition	5 preset buffer groups + custom
<b>mV Mode</b>	
Range	±2000 mV / Rel mV
Resolution	0.1
Accuracy	±0.2
<b>Temperature Mode</b>	
Range	-5.0 to 105.0 °C
Resolution	0.1 °C (0.1 °F)
Accuracy	±0.2 °C (±0.3 °F)
<b>Ion Mode</b>	
Range	1 x 10 <sup>-6</sup> to 9.99 x 10 <sup>10</sup>
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.5 % full scale (monovalent ion) 1 % full scale (divalent ion)
<b>Conductivity Mode</b>	
Range	0 to 500.0 mS
Resolution	0.01 / 0.1 µS ; 0.001 / 0.01 / 0.1 mS
Accuracy	±1 % full scale
<b>TDS Mode</b>	
Range	0.050 ppm to 500 ppt (@ TDS factor 1.00)
<b>Salinity Mode</b>	
Range	0 to 80.0 ppt
<b>Resistivity Mode</b>	
Range	2.000 Ω to 20.0 MΩ
<b>Output</b>	RJ45, RS232, USB-A, mini-B USB, stirrer port (2)
<b>Language Selection</b>	English, Deutsch, 中文, Français, Italiano, & Español
<b>High / Low Alarms</b>	Yes, user selectable, visual & audible

**XL500 Kit:** Includes meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

**XL500 Meter Only:** Includes meter, electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

Description	Catalog No.
XL500 Kit	13-636-XL500
XL500 Meter Only	13-636-XL500A
Fisher Scientific accumet® Benchtop Stirring Probe	13-620-BSP



Kit includes 13-620-100 cell.  
For other conductivity cells, see page 14.

Full-function pH and mV capabilities. Extended pH range, with resolution adjustable to 0.001 and calibration from 5 preset buffer groups, custom buffers, and up to six points for exceptional ±0.002 accuracy.

Ion-selective electrode measurement is easy, with the ion name displayed right on the measurement screen so you'll never have the wrong ISE curve. Automatically run direct or addition/subtraction methods. On-screen prompts allow easy entry of volumes and concentrations, quickly providing sample concentration without tedious paper calculations.

Measure conductivity, salinity, or resistivity from 0 to 500 mS. Selectable temperature coefficients, cell constants, and display units ensure accurate readings throughout a broad range of samples.





# Fisher Scientific accumet® XL250 pH/mV/Temp/ISE Meter

*Multiple BNC Ports Allow Flexibility*

- » Dual-BNC channels; use them for pH or mV or ion selective measurement – you decide
- » Accepts any pH, ORP, or ion selective electrode with BNC connector
- » View independent electrode slope in each channel and each range at a glance
- » TFT color LCD provides crystal clear data from wide viewing angles and at a distance
- » Connect one or two stirring probes; provides mixing without stir plates!
- » Bidirectional communication for LIMS connectivity
- » USB connectivity for use with keyboard, mouse, or other USB device
- » RJ45 Ethernet/Internet port – connect to Local Area Network (LAN) or Internet, print data to a network printer or surf the web
- » Calibrate with custom buffer values or automatically using one of five preset buffer groups

**For best results, connect optional 13-620-BSP stirrer (see page 13) for efficient mixing and fast, accurate measurements!**

Ion-selective electrode measurement has never been this easy. And with dual-channel capability, there is no need to recalibrate every time you switch from pH to ISE measurement. The XL250 displays the ion name right on the measurement screen so you'll never have the wrong ISE curve.

Addition/subtraction methods are almost foolproof. The XL250 prompts you through the method steps, allowing easy entry of volumes and concentrations, providing you with the sample concentration without tedious paper calculations.

## Specifications and Ordering Information

<b>pH Mode</b>	
Range	-2.000 to 20.000
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.1 / 0.01 / 0.002 ±1 LSD
Auto Buffer Recognition	5 preset buffer groups + custom
<b>mV Mode</b>	
Range	±2000 mV / Rel mV
Resolution	0.1
Accuracy	±0.2
<b>Temperature Mode</b>	
Range	-5.0 to 105.0 °C
Resolution	0.1 °C (0.1 °F)
Accuracy	±0.2 °C (±0.3 °F)
<b>Ion Mode</b>	
Range	1 x 10 <sup>-6</sup> to 9.99 x 10 <sup>10</sup>
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.5 % full scale (monovalent ion) 1 % full scale (divalent ion)
<b>Output</b>	RJ45, RS232, USB-A, mini-B USB, stirrer port (2)
<b>Language Selection</b>	English, Deutsch, 中文, Français, Italiano, & Español
<b>High / Low Alarms</b>	Yes, user selectable, visual & audible

**Fluoride Kit:** Includes meter, 13-620-629 fluoride electrode, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm, RS-232 & USB cables, 110/220 V power supply, and manual.

**Ammonia Kit:** Includes meter, 13-620-509 ammonia electrode, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm, RS-232 & USB cables, 110/220 V power supply, and manual.

**Meter Kit:** Includes meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm, RS-232 & USB cables, 110/220 V power supply, and manual.

**Meter Only:** Includes meter, electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

Description	Catalog No.
XL250 Fluoride Kit	<b>13-636-XL250F</b>
XL250 Ammonia Kit	<b>13-636-XL250N</b>
XL250 Kit	<b>13-636-XL250</b>
XL250 Meter Only	<b>13-636-XL250A</b>

## Ion Selective Electrodes (ISE)

Description	Catalog No.
Fluoride	<b>13-620-629</b>
Ammonia	<b>13-620-509</b>
Nitrate	<b>13-620-534</b>
Chloride	<b>13-620-627</b>
Sodium	<b>13-620-503A</b>



# Fisher Scientific accumet® XL200 pH/mV/Temp/Conductivity Meter

*No Need To Swap Probes – Measure And Display Two Channels Simultaneously*



- » Measure pH/Temp and Conductivity/Temp simultaneously
- » TFT color LCD provides crystal clear data from wide viewing angles and at a distance
- » Improved touch screen with glass/glass sensitivity
- » Connect one or two stirring probes; provides mixing without stir plates!
- » Bidirectional communication for LIMS connectivity
- » USB connectivity for use with keyboard, mouse, or other USB device
- » Upgradable application software
- » RJ45 Ethernet/Internet port – connect to Local Area Network (LAN) or Internet, print data to a network printer or surf the web
- » Calibrate with custom buffer values or automatically using one of five preset buffer groups



The XL200 combines two instruments in one; a pH/mV/Temperature meter and Conductivity/TDS/Resistivity/Salinity meter. Display one parameter for better focus and live graphing, or choose dual display with a touch of the screen.

Use one or two optional 13-620-BSP stirring probes for best results. Use optional 13-637-671 to add a second electrode arm and measure on both sides of the XL200.

The XL200 is compatible with a variety of Fisher Scientific accumet® conductivity cells to match your requirements. Selectable cell constants let you use K = 1 cells for general purpose, 0.1 cells for high purity water, or 10 cells for brines or other concentrated solutions.

## Specifications and Ordering Information

<b>pH Mode</b>	
Range	-2.000 to 20.000
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.1 / 0.01 / 0.002 ±1 LSD
Auto Buffer Recognition	5 preset buffer groups + custom
<b>mV Mode</b>	
Range	±2000 mV / Rel mV
Resolution	0.1
Accuracy	±0.2
<b>Temperature Mode</b>	
Range	-5.0 to 105.0 °C
Resolution	0.1 °C (0.1 °F)
Accuracy	±0.2 °C (±0.3 °F)
<b>Conductivity Mode</b>	
Range	0 to 500.0 mS
Resolution	0.01 / 0.1 µS ; 0.001 / 0.01 / 0.1 mS
Accuracy	±1 % full scale
<b>TDS Mode</b>	
Range	0.050 ppm to 500 ppt (@ TDS factor 1.00)
<b>Salinity Mode</b>	
Range	0 to 80.0 ppt
<b>Resistivity Mode</b>	
Range	2.000 Ω to 20.0 MΩ
<b>Output</b>	RJ45, RS232, USB-A, mini-B USB, stirrer port (2)
<b>Language Selection</b>	English, Deutsch, 中文, Français, Italiano, & Español
<b>High / Low Alarms</b>	Yes, user selectable, visual & audible

**XL200 Kit:** Includes meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

**XL200 Meter Only:** Includes meter, electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

Description	Catalog No.
XL200 Kit	<b>13-636-XL200</b>
XL200 Meter Only	<b>13-636-XL200A</b>
Fisher Scientific accumet® Benchtop Stirring Probe	<b>13-620-BSP</b>



Kit includes 13-620-100 cell.  
For other conductivity cells, see page 14.

# Fisher Scientific accumet® XL150 pH/mV/Temp Meter

Simple Yet Powerful, Large Full-Color Touch Screen For Easy Operation



- » Calibrate with custom pH buffer values that you choose or automatically from one of six preset buffer groups including a new pure water buffer group
- » New high-resolution color display provides crystal clear data from wide viewing angles and at a distance
- » Connect one or two stirring probes; provides mixing without stir plates!
- » New bidirectional communication for LIMS connectivity and 3rd party software
- » USB host connectivity for peripherals such as keyboard, mouse, or other USB device
- » RJ45 Ethernet/Internet port – connect to Local Area Network (LAN) or Internet, print data to a network printer or surf the web
- » Optional calibration reminder & high/low alarm
- » Create up to 10 password protected ID's; each includes memory to store 2000 data points. Base ID's on individual users, applications, or projects to keep data separate, and retain unique calibration and instrument settings
- » 3-year instrument warranty; register at [fishersci.com/accumet](http://fishersci.com/accumet)

## Specifications and Ordering Information

<b>pH Mode</b>	
Range	-2.000 to 20.000
Resolution	0.1 / 0.01 / 0.001
Accuracy	±0.1 / 0.01 / 0.002 ±1 LSD
Auto Buffer Recognition	USA: 2.00, 4.01, 7.00, 10.01, 12.00 NIST: 1.68, 4.01, 6.86, 9.18, 12.46 DIN 19267: 1.09, 3.06, 4.65, 6.79, 9.23, 12.75 FSCI: 1.00, 3.00, 6.00, 8.00, 10.00, 13.00 Pure Water: 4.10, 6.97, 9.15 CUSTOM: 2-5 points; any values ≥1.0 pH units apart
<b>mV Mode</b>	
Range	±2000 mV / Rel mV
Resolution	0.1
Accuracy	±0.2
<b>Temperature Mode</b>	
Range	-5.0 to 105.0 °C
Resolution	0.1 °C (0.1 °F)
Accuracy	±0.2 °C (±0.3 °F)
<b>Output</b>	RJ45, RS232, USB-A, mini-B USB, stirrer port (2)
<b>Language Selection</b>	English, Deutsch, 中文, Français, Italiano, & Español
<b>High / Low Alarms</b>	Yes, user selectable, visual & audible

**XL150 Kit:** Includes meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm, RS-232 & USB cables, 110/220 V power supply, and manual.

**XL150 Meter Only:** Includes meter, electrode arm, RS-232 & USB cables, 100/240 V power supply, and manual.

Description	Catalog No.
XL150 Kit	<b>13-636-XL150</b>
XL150 Meter Only	<b>13-636-XL150A</b>
Fisher Scientific accumet® Benchtop Stirring Probe	<b>13-620-BSP</b>

**For best results, connect optional 13-620-BSP stirrer (see page 13) for efficient mixing and fast, accurate measurements!**



Measure pH and mV with all the power of the top-of-the-line XL600. The XL150 offers simplified, single-channel operation but doesn't skimp on performance or features. Offers the same extended pH range (-2 to 20), with resolution adjustable to 0.001 and calibration at up to six points for exceptional accuracy (±0.002).

Extensive GLP capabilities with customizable printer or computer output and 2000-reading datalog capability. Print setup allows you to print exactly what you want, exactly when you want to.

# Fisher Scientific accumet® Benchtop Stirring Probe

Simple "Plug and Stir" Technology Available With New AB & XL Series

- » Provides mixing without magnetic stir bars or stir plates required!
- » Saves valuable bench space
- » Quiet operation
- » Adjustable speed control
- » No additional power required
- » Multi-parameter XL benchtop models can accept up to two probes for simultaneous stirring
- » Compatible with the following models:
  - XL150, XL200, XL250, XL500, XL600
  - AB150, AB250, AB200

## Ordering Information

Description	Catalog No.
Fisher Scientific accumet Benchtop Stirring Probe	13-620-BSP
Replacement Paddle with Stirring Rod	13-620-RP
Electrode Holding Arm and Bracket for AB & XL Series Benchtop Meters	13-637-671



*Slim design allows effortless mixing.*

