

The Thermo Scientific Orion 3-Star Plus pH meters are ideal for a variety of pH measurements – water, media, beverage, process water.

Thermo Scientific Orion 3-Star Plus pH Meters



Features and Benefits

- Simultaneous display of pH or mV, and temperature measurements on the backlit LCD
- The Thermo Scientific Orion SMART STABILITY™ and SMART AVERAGING™ functions for automatically optimized accuracy, precision and response time
- Temperature calibration capability
- pH calibration of up to 5 points with calibration alarm
- Automatic buffer recognition of USA, NIST and DIN buffers
- Storage of up to 10 individually password protected methods for easy retrieval of operation procedures
- Datalog up to 1000 points with time and date stamp
- Average slope and slope of segment printed with pH measurements
- RS232 port for data downloads and communication
- Benchtop units can control an autosampler and the 096010 stirrer probe (*each sold separately*)
- Benchtop units are splashproof with an IP54-rated housing and include a universal power supply
- Portable units are waterproof with an IP67-rated housing and run for over 2,000 hours on four AA batteries
- 3 year meter warranty

Product Specifications and Ordering Information

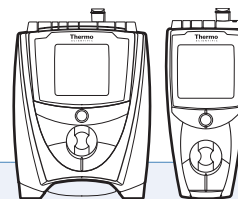
Thermo Scientific Orion 3-Star Plus pH Meters

pH	Range	- 2.000 to 19.999
	Resolution	0.1, 0.01, 0.001
	Relative Accuracy	± 0.002
mV	Range	± 1999.9
	Resolution	0.1
	Relative Accuracy	± 0.2 or 0.05%, whichever is greater
Temperature	Range	- 5 to 105 °C
	Resolution	0.1 up to 99.9 °C, 1.0 over 99.9 °C
	Relative Accuracy	± 0.1 °C

Ordering Information

Meters Only		
Cat. No.	Package	
1112000	Includes benchtop meter, universal power and user guide	
1212000	Includes portable meter, batteries and user guide	
Portable Meter Kits		
Cat. No. / Application	Sensor (s)	Accessories and Solutions
1212001 / Fresh Water	<ul style="list-style-type: none"> 9107BNMD Low maintenance epoxy pH/ATC Triode electrode 	<ul style="list-style-type: none"> Beaker Electrode storage chamber pH electrode storage solution (5 x 60 mL bottles) pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches) Hard field case
1212002 / TRIS Clog-Free Wastewater	<ul style="list-style-type: none"> 5107BNMD No Cal refillable pH/ATC electrode 	<ul style="list-style-type: none"> Beaker pH electrode storage solution (5 x 60 mL bottles) pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches) Hard field case
1212501 / Fresh Water	<ul style="list-style-type: none"> 9107BNMD Low maintenance epoxy pH/ATC Triode electrode 	<ul style="list-style-type: none"> Beaker Electrode storage chamber pH electrode storage solution (5 x 60 mL bottles) pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches) Soft field case
1212503 / ORP	<ul style="list-style-type: none"> 9179BNMD Low maintenance epoxy ORP/ATC Triode electrode 	<ul style="list-style-type: none"> Meter impact jacket with electrode storage chamber ORP standard (5 x 60 mL bottles) Soft field case
1212101 / Fresh Water	<ul style="list-style-type: none"> 9107BNMD Low maintenance epoxy pH/ATC Triode electrode 	—
1010115 / Fresh Water	<ul style="list-style-type: none"> 9107BNMD Low maintenance epoxy pH/ATC Triode electrode 	<ul style="list-style-type: none"> Meter impact jacket with electrode storage chamber Electrode rinse solution (25 x 15 mL pouches) pH electrode storage solution (5 x 60 mL bottles) pH 4.01, 7.00 and 10.01 buffers (10 x 15 mL pouches) Soft field case Method Note - pH of Salt Water
1010110 / Wastewater	<ul style="list-style-type: none"> 5107BNMD No Cal refillable pH/ATC electrode 	<ul style="list-style-type: none"> Electrode storage chamber pH electrode storage solution (5 x 60 mL bottles) pH 4.01, 7.00 and 10.01 buffers (10 x 15 mL pouches) Method Note - pH of Wastewater

Ordering Information (cont'd)



Benchtop Meter Kits

Cat. No. / Application	Sensor (s)	Accessories and Solutions
1112001 / Fresh Water	<ul style="list-style-type: none"> 9157BNMD refillable epoxy pH/ATC Triode electrode 	<ul style="list-style-type: none"> Swing arm electrode stand pH 4.01, 7.00, and 10.01 buffers and pH electrode storage solution (pint bottles)
1112003 / TRIS Fresh Water	<ul style="list-style-type: none"> 8102BNUWP ROSS Ultra refillable glass pH electrode 927005MD Epoxy ATC probe 	<ul style="list-style-type: none"> Swing arm electrode stand pH 4.01, 7.00, and 10.01 buffers and pH electrode storage solution (pint bottles)
1112004 / Clog-Free Wastewater	<ul style="list-style-type: none"> 9172BNWP Sure-Flow refillable glass pH electrode 927007MD Stainless steel ATC probe 	<ul style="list-style-type: none"> Swing arm electrode stand pH 4.01, 7.00, and 10.01 buffers and pH electrode storage solution (pint bottles)
1112006 / TRIS Ultra Pure Water	<ul style="list-style-type: none"> 8102BNUWP ROSS Ultra refillable glass pH electrode 927005MD Epoxy ATC probe 	<ul style="list-style-type: none"> Swing arm electrode stand pH 4.10, 6.79, and 9.15 pure water buffers and pH electrode storage solution (pint bottles) pHISA adjuster solution (5 x 60 mL bottles)
1112201 / Fresh Water	<ul style="list-style-type: none"> 9157BNMD Refillable epoxy pH/ATC Triode electrode 	<ul style="list-style-type: none"> Swing arm electrode stand
1112202 / Clog-Free TRIS Wastewater	<ul style="list-style-type: none"> 8172BNWP ROSS Sure-Flow refillable glass pH electrode 927006MD Glass ATC probe 	<ul style="list-style-type: none"> Swing arm electrode stand
1112203 / TRIS Fresh Water	<ul style="list-style-type: none"> 9156APWP AquaPro low maintenance epoxy pH electrode 	<ul style="list-style-type: none"> Swing arm electrode stand
1112204 / Fresh Water	<ul style="list-style-type: none"> 9107BNMD Low maintenance epoxy pH/ATC Triode electrode 	<ul style="list-style-type: none"> Swing arm electrode stand
1112205 / Fresh Water	<ul style="list-style-type: none"> 9156BNWP Refillable epoxy pH electrode 927007MD Stainless steel ATC probe 	<ul style="list-style-type: none"> Swing arm electrode stand
1112207 / Fresh Water	<ul style="list-style-type: none"> 9106BNWP Low maintenance epoxy pH electrode 	<ul style="list-style-type: none"> Swing arm electrode stand
1112101 / TRIS Fresh Water	<ul style="list-style-type: none"> 8102BNUWP ROSS Ultra refillable glass pH electrode 927007MD Stainless steel ATC probe 	—
1112102 / Clog-Free TRIS Wastewater	<ul style="list-style-type: none"> 8172BNWP ROSS Sure-Flow refillable glass pH electrode 927006MD Glass ATC probe 	—
1112103 / TRIS Fresh Water	<ul style="list-style-type: none"> 8102BNUWP ROSS Ultra refillable glass pH electrode 	—
1112104 / Fresh Water	<ul style="list-style-type: none"> 9157BNMD Refillable epoxy pH/ATC Triode electrode 	—
1112107 / Fresh Water	<ul style="list-style-type: none"> 9106BNWP Low maintenance epoxy pH electrode 	—
1112108 / Clog-Free Wastewater	<ul style="list-style-type: none"> 9165BNWP Sure-Flow refillable epoxy pH electrode 	—

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