

### PROBES FOR THE YSI-100

Description	NCL #	Price/ea
Waterproof pH/Temp probe with 3 ft cable	<b>DY-1001</b>	<b>94.05</b>
Waterproof pH/Temp probe with 12 ft cable	<b>DY-1004</b>	<b>118.75</b>

### PROBES FOR PORTABLE WATERPROOF pH METER WITH 200-POINT DATALOGGER

Description	NCL #	Price/ea
Replacement Sentex 41 pH/Temp probe with 3 ft cable	<b>WT-635</b>	<b>233.00</b>
Replacement Sentex 41 pH/Temp probe with 10 ft cable	<b>WT-636</b>	<b>272.00</b>

### PROBES FOR ECONOMY BENCHTOP pH/mv/TEMP METER

Description	NCL #	Price/ea
pH Probe	<b>HI-1131B</b>	<b>99.90</b>
Temp Probe	<b>HI-76692W</b>	<b>56.70</b>
Probe Holder	<b>HI-76404</b>	<b>63.90</b>

# GREEN ELECTRODE



NOTE: For the new Orion probes, the connection between the meter and probe cable are waterproof.

The probe, however, is NOT submersible.

The new Orion line of green electrodes offers the first lab or field pH electrode that meets all RoHS requirements. The electrodes contain no hazardous components, allowing for easy disposal. The electrodes are free of lead and mercury unlike many pH electrodes. Other pH electrodes which are normally manufactured with lead have an exemption from RoHS requirements at this time.

Orion green electrodes have a durable plastic body that can be used under rugged conditions. Green electrodes can be used in the lab or field for normal pH measurements. The single junction style can be used for routine pH measurements.

The waterproof BNC connector provides a waterproof and secure connection when used with an Orion Star Series meter. Note, however, the probe is NOT submersible. This BNC connector is compatible with any standard BNC input on any Orion or competitive meter model. Refillable models are supplied with a 60 ml bottle of electrode fill solution.

NCL stocks only the single junction models as they are the most economical green probes for testing water and wastewater.

## **GEL-FILLED GREEN pH PROBE**

**GS-9106      117.80/ea**

## **REFILLABLE GREEN pH PROBE (INCLUDES ONE 60 ML BOTTLE OF FILLING SOLUTION)**

**GS-9156      155.80/ea**

## **FILLING SOLUTION FOR GREEN ELECTRODES**

**O-810007      15.50/ea      77.40/pk of 5**



## THERMO SCIENTIFIC ORION pH COMBINATION PROBES WITH BNWP CONNECTORS

Probe Style	Body	Recommended Use	NCL #	Price/ea
gel-filled economy	epoxy	rugged field & plant use	<b>O-9106</b>	<b>102.60</b>
refillable standard	epoxy	rugged field & plant use	<b>O-9156</b>	<b>137.70</b>
refillable standard	glass	rugged lab use	<b>O-9104</b>	<b>203.40</b>
refillable standard	glass	research, QC	<b>O-9102</b>	<b>179.10</b>
refillable standard	glass	viscous solutions	<b>O-9162</b>	<b>305.10</b>
Sure-Flow	epoxy	viscous solutions/sludge/soils	<b>O-9165</b>	<b>232.20</b>
Sure-Flow	glass	viscous solutions/sludge/soils	<b>O-9172</b>	<b>236.70</b>
ROSS	glass	high stability (fast response)	<b>O-8102</b>	<b>344.70</b>
ROSS	epoxy	general lab (fast response)	<b>O-8156</b>	<b>378.00</b>
ROSS Ultra	glass	high stability (fast response)	<b>O-8102U</b>	<b>387.00</b>
ROSS Sure-Flow	epoxy	high performance (fast response)	<b>O-8165</b>	<b>407.70</b>
ROSS Sure-Flow	glass	high performance (fast response)	<b>O-8172</b>	<b>414.00</b>

Note: The above listed probes will fit all A and A+ series meters as well as the star series meters and have Waterproof (WP) connectors

## THERMO SCIENTIFIC ORION pH FILL SOLUTIONS

For Thermo Scientific Orion Probes	NCL #	Price/60 ml	Price/pk (5 x 60 ml)
8003, 8005, 8102, 8103, 8104, 8135, 8155, 8156, 8163, 8165, 8172, 8175 pH probes	<b>O-810007</b>	<b>15.50</b>	<b>77.40</b>
900100 single-junction reference probe	<b>O-900001</b>	<b>17.00</b>	<b>76.50</b>
900200 double junction (inner body)	<b>O-900002</b>	<b>17.00</b>	<b>79.20</b>
900200 (outer body) except when using with a Nitrate ISE probe	<b>O-900003</b>	<b>17.00</b>	<b>79.20</b>
9202, 9203, 9256, 9272, 9004	<b>O-900004</b>	<b>17.00</b>	<b>79.20</b>
800300, 800500 Sodium reference probe	<b>O-900010</b>	<b>22.20</b>	<b>99.90</b>
9004, 9102, 9103, 9104, 9162, 9155, 9156, 9157, and 9172 pH probes	<b>O-900011</b>	<b>27.00</b>	<b>79.20</b>
9346BN, 9307BN (outer body), other ion-plus probes	<b>O-900046</b>	<b>18.80</b>	<b>84.60</b>
9609BN, other ion-plus probes as specified	<b>O-900061</b>	<b>18.80</b>	<b>84.60</b>
9617 Chloride probe	<b>O-900062</b>	<b>18.80</b>	<b>84.60</b>

## ACCESSORIES FOR **THERMO** SCIENTIFIC ORION STAR SERIES METERS

### **THERMO** SCIENTIFIC ORION TRIODES (pH/ATC) PROBES FOR STAR SERIES METERS ONLY

Epoxy body for routine pH measurement. Probes have 3 ft cables, except for the waterproof probe, which has a 10 ft cable.

Probe Style	NCL #	Price/ea
gel-filled standard	<b>O-9107BNMD</b>	<b>212.40</b>
refillable standard	<b>O-9157BNMD</b>	<b>297.90</b>
waterproof, gel filled	<b>O-9107WMMD</b>	<b>223.20</b>

### AC ADAPTER FOR **THERMO** SCIENTIFIC ORION STAR SERIES METERS

**O-1010003**

**52.95/ea**



### **THERMO** SCIENTIFIC ORION STIRRER AND PADDLE FOR STAR SERIES METERS ONLY

Not compatible with other series meters.

**O-6019**

**192.60/ea**

### **THERMO** SCIENTIFIC ORION ATC PROBES FOR STAR SERIES METERS ONLY

Not compatible with other series meters.

Body	NCL #	Price/ea
epoxy	<b>O-927005MD</b>	<b>224.10</b>
glass	<b>O-927006MD</b>	<b>239.40</b>
stainless steel	<b>O-927007MD</b>	<b>270.00</b>



### **MODEL PRT-300 PRINTER**

Ink printer (not thermal). Compatible with all Thermo Scientific Orion meters having an RS232 output except the older model SA720. For some meters, an adapter cable is required at extra cost.

**PRT-300** **743.40/ea**

### **RIBBON CARTRIDGE FOR PRT-300**

**PRT-302** **31.20/ea**



### **THERMO** SCIENTIFIC ORION INKJET PRINTER FOR STAR SERIES METERS ONLY

110V and cable. Not compatible with other series meters.

Description	NCL #	Price/ea
Inkjet printer	<b>PO-1010</b>	<b>555.00</b>
Paper for printer	<b>PO-109</b>	<b>13.70</b>
Inkjet cartridge	<b>PO-108</b>	<b>35.00</b>



## **pH ACCESSORIES FOR OLDER ORION METERS**

The following accessories are compatible only with **Thermo** Scientific Orion "A" and "A+" series meters.

### **THERMO SCIENTIFIC ORION ATC PROBES**

The following ATC probes will work with Orion Models 210A, 230A, 290A, 420A, 720A, and 920A or **Thermo** Scientific Orion Models 210A+, 230A+, 290A+, 420A+, 720A+, and 920A+.

<b>Body</b>	<b>NCL #</b>	<b>Price/ea</b>
epoxy	<b>O-917005</b>	<b>204.30</b>
glass	<b>O-917006</b>	<b>204.30</b>
stainless steel	<b>O-917007</b>	<b>239.40</b>

### **THERMO SCIENTIFIC ORION TRIODES (pH/ATC) PROBES WITH BNC CONNECTORS**

<b>Probe Style</b>	<b>Body</b>	<b>Recommended Use</b>	<b>NCL #</b>	<b>Price/ea</b>
gel-filled standard	epoxy	routine pH	<b>O-9107BN</b>	<b>198.00</b>
refillable standard	epoxy	routine pH	<b>O-9157BN</b>	<b>292.50</b>

### **AC ADAPTER FOR ORION® "A" OR THERMO SCIENTIFIC ORION "A+" SERIES METERS**

Also used with 105 and 115 conductivity meters, 810 and 850 DO meters.

**O-020125    81.00/ea**



### ELECTRODE STORAGE BOTTLE

For soaking a pH electrode in storage solution. Twist top "O" ring seal prevents leaks. 30 ml bottle.

**ES-100 10.15/ea**



### PROBE CLEANING SOLUTIONS

New pH probe cleaning kits to maximize the life of the probe. Packs include four bottles of cleaning solution, 15 ml plastic beaker, and 1 ml plastic pipet.

Description	Size	NCL #	Price/ea
Solution A: for removing proteins	4 x 1 oz	<b>O-900021</b>	<b>50.40</b>
Solution B: for general cleaning & bacteria removal	4 x 2 oz	<b>O-900022</b>	<b>50.40</b>
Solution C: for general cleaning	4 x 1 oz	<b>O-900023</b>	<b>50.40</b>
Solution D: to remove oil & grease	4 x 2 oz	<b>O-900024</b>	<b>50.40</b>
Contains one each of A, B, C, and D above	Set	<b>O-900020</b>	<b>46.80</b>

Thermo Scientific Orion pH Electrode Storage Solutions	Size	NCL#	Price/ea
General Electrodes	475 ml	<b>O-910001</b>	<b>45.00</b>
Ross Electrodes	475 ml	<b>O-810001</b>	<b>60.30</b>



### ELECTRODE SIMULATORS

A sure-fire way to confirm or eliminate your meter as the source of your problems.

pH/mv/ORP electrode simulator.

For diagnostics on pH/mv meters. Includes 3 ft. BNC cable. Connect to your meter and simulate pH readings from 0 to 14 in 0.01 pH increments. Simulate mV readings from -1000 to +1000 in 1 mv steps. All outputs simulated @25°C.

**SH-101 200.70/ea**

### 4-20ma SIMULATOR

For calibrating controllers and checking recorders. Includes 3 ft cable and adapter. Can measure incoming current, provide power, and simulate 4-20ma output to calibrate your process meter. Can be operated in the following four modes:

- ① Passive drive/calibrator mode
- ② Active drive/simulator mode
- ③ Passive measurement/tester mode
- ④ Active measurement/tester mode

**SH-102 229.50/ea**



### NCL pH ELECTRODE STORAGE SOLUTION

Extend the life of your pH electrode by using this solution instead of buffer for storing your probe.

**E-24 18.70/500 ml bottle**



### ELECTRODE SUPPORT, FREE-STANDING WITH WEIGHTED BASE

Body	NCL #	Price/ea
plastic	<b>PW-100</b>	<b>74.00</b>
metal	<b>PW-102</b>	<b>79.00</b>



## TOTAL ALKALINITY TEST KIT

The **Thermo Scientific Orion** Total Alkalinity Test Kit is a two-step direct measurement for total alkalinity and pH. Calibrate for pH as usual, add the Alkalinity Reagent and read total alkalinity in ppm  $\text{CaCO}_3$  from the enclosed pH conversion chart. Saves time by eliminating additional equipment set-up, tedious titrations and calculations. Kit includes: one 475 ml bottle of alkalinity reagent, one 475 ml bottle of alkalinity standard (1000 ppm as  $\text{CaCO}_3$ ), conversion chart, and Application Procedure No. 517 "Total Alkalinity in Natural Waters".

**O-700010 172.80/ea**



Refill Reagents for O-700010		
Description	NCL #	Price/ea
Total Alkalinity reagent	<b>O-700011</b>	<b>165.60/pk of 4x475 ml</b>
Total Alkalinity standard	<b>O-700012</b>	<b>75.60/475 ml</b>



NOVA pH Combination Probes with BNC Connectors				
Probe Style	Body	Recommended Use	NCL #	Price/ea
gel-filled	epoxy	aqueous solutions	<b>PC-476326</b>	<b>144.00</b>
refillable	epoxy	general use	<b>PC-476086</b>	<b>189.00</b>
refillable	epoxy	fast response	<b>PC-476546</b>	<b>267.10</b>
refillable	glass	fast response	<b>PC-476146</b>	<b>376.20</b>
refillable	glass	rugged bulb	<b>PC-476296</b>	<b>265.50</b>

NOVA 3-in-1 (pH/ATC) Probes with BNC Connectors				
Probe Style	Body	Recommended Use	NCL #	Price/ea
gel-filled	epoxy	routine pH	<b>PC-476466</b>	<b>212.40</b>
refillable	epoxy	routine pH	<b>PC-476436</b>	<b>226.80</b>

Fill Solutions for NOVA pH Probes				
For probes:	Size	NCL #	Price/ea	Price/cs of 6
476530, 476531, 476380	4 oz.	<b>PC-477000</b>	<b>12.00</b>	<b>64.80</b>
476086, 476546, 476146, 476296, 476436	4 oz.	<b>PC-477006</b>	<b>22.50</b>	<b>121.50</b>



Replacement Reference Junctions for some NOVA pH Probes		
For probes:	NCL #	Price
476086, 476546, and 476436	<b>PC-477</b>	<b>84.00/pk of 3</b>