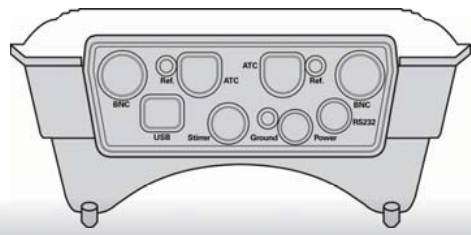




## Thermo Scientific Orion DUAL STAR™

Dual Channel pH/ISE Benchtop Meter



Display shows results, electrode status, ATC temperature and channel settings. If a method is selected, the number shows as well

Power key turns on/off the meter and adjusts backlighting

Shortcut keys for direct access to commonly used functions

Channel key toggles display to show both channels simultaneously or just one

Single channel display also shows electrode serial number, sample ID, date and time

Function keys update according to the menu for easy selection

Numeric keypad for easy data entry in submenus



### Features and Benefits

- Dual channel with simultaneously displayed measurements
- Low concentration range reading stability
- Known addition and subtraction incremental methods
- 5 language choices: English, Spanish, French, German and Italian
- Meter prompts and shortcut keys
- Thermo Scientific Orion EZ Startup™ for quick and easy meter set-up
- Thermo Scientific Orion SMART STABILITY™ and SMART AVERAGING™ for accurate and fast results
- E<sub>H</sub> ORP calibration capability
- 10 methods stored per channel – retains calibrations among multiple electrodes
- 1000 point datalogging with time and date stamping
- Calibration, high point and low point alarms
- Calibration graph with slope data for on-screen viewing
- Star stirrer probe controlled directly from the meter
- Autosampler compatibility
- 3 year meter replacement warranty



## Product Specifications

CE   TUV   EPA		
pH	Range	-2.000 to 19.999
	Resolution	0.1, 0.01, 0.001
	Relative Accuracy	±0.002
	Calibration Points	1 to 6
	Auto-Buffer Recognition	USA/NIST and EURO/DIN
ISE	Range	0 to 19999
	Resolution	1,2 or 3 significant digits
	Relative Accuracy	±0.2 mV or 0.05 %, whichever is greater
	Units	ppm, ppb, M, % or unitless
	Technique Options	Single known addition and subtraction Double known addition and subtraction
	Calibration Points	2 to 6
mV/ Rel mV/ ORP	Calibration Options	Linear, point to point, non-linear selectable auto-bank
	Range	±1999.9
	Resolution	0.1
	Relative Accuracy	±0.2 or 0.05 %, whichever is greater
	E <sub>n</sub> Calibration Capability	Yes
Temperature	Range	-5 to 105 °C
	Resolution	0.1
	Relative Accuracy	±0.1 °C

## Features

Backlight	5 adjustable levels
Method Storage	20 (10 per channel with calibration data)
Password Protection	Yes
Datalog Points	1000 with time/date stamp
Data Transfer	RS232, USB
IP Rating	IP54
Power	Universal AC adapter (110V/220V/240V) included with meter
Warranty	36 months replacement

## Meter Ordering Information

Cat. No.	Description
2115000	- Orion DUAL STAR pH/ISE meter - Stainless steel ATC probe (927007MD) - Swing arm electrode stand (090043) - RS232 cable (1010053) - Universal power adapter - User guide
2115101	- Orion DUAL STAR pH/ISE meter - 8102BNUWP ROSS Ultra <sup>®</sup> pH electrode - Stainless steel ATC probe (927007MD) - RS232 cable (1010053) - Swing arm electrode stand (090043) - Universal power adapter - User guide
2115102	- Orion DUAL STAR pH/ISE meter - 8157BNUMD ROSS Ultra pH/ATC Triode <sup>™</sup> refillable electrode - RS232 cable (1010053) - Universal power adapter - User guide
2115001	- Orion DUAL STAR pH/ISE meter - 8102BNUWP ROSS Ultra pH electrode - Stainless steel ATC probe (927007MD) - RS232 cable (1010053) - Swing arm electrode stand (090043) - Pint of pH 4.01 buffer (910104) - Pint of pH 7.00 buffer (910107) - Pint of pH 10.01 buffer (910110) - Pint of ROSS <sup>®</sup> electrode storage solution (810001) - Universal power adapter - User guide

## Accessories

Cat. No.	Description
096019	Thermo Scientific Orion stirrer probe with paddle
910104	pH 4.01 buffer, 475 mL
910107	pH 7.00 buffer, 475 mL
910110	pH 10.01 buffer, 475 mL



pH ■  
ISE ■  
ORP ■  
Cond ■  
RDO ■  
DO ■  
Temp ■