

Orion Laboratory Conductivity Meter

Orion 145A+

- Conductivity
- Salinity
- TDS
- Temperature

- Temperature Compensation with Adjustable Temperature Coefficient
- Meets USP Requirements
- 25 Point Datalogging and RS232 Communications

Orion 145A+ Conductivity Meter is Orion's newest laboratory meter and offers autoranging, selectable temperature compensation and adjustable temperature coefficient. Select between total dissolved solids, salinity or conductivity modes to simplify measurement. The DirectCal feature makes cell constant determination easy. Datalog up to 25 data points or use the RS232 to communicate directly to a computer or printer. The Orion 145A+ comes complete with a 011510 graphite cell with integral temperature sensor. Packages are available with stainless steel flow through cells and meter calibration kit (Item No. 011220) to meet USP testing requirements.

Direct Cal™ One Step Calibration makes calibration a simple, one step process. Now it is no longer necessary to adjust the cell constant, verify the accuracy in a standard, and repeat the process until the desired accuracy is obtained. You simply put the probe in the standard, and adjust the meter to the correct conductivity value.

Meter Warranty is three years.



Specifications

Conductivity	
Range, $\mu\text{s}/\text{cm}$	0 to 199,990 in 4 Ranges
Resolution, $\mu\text{s}/\text{cm}$	0.1
Relative Accuracy (5)	$\pm 0.5\%$ FS within each range, $\pm 0.1 \mu\text{s}/\text{cm}$ in lowest range
Salinity	
Range	0.0 to 80.0 ppt
Resolution	0.1
Relative Accuracy (5)	0.5% FS
TDS	
Range	0 to 19,900 mg/L
Resolution	3 significant digits or 1 mg/L
Relative Accuracy (5)	$\pm 0.5\%$
Temperature	
Range	-5.0 to 105.0 °C
Compensation	Linear
Reference Temperature	25 or 20 °C
Accuracy (4)	± 1 °C
Coefficient	0.0 to 2.5%/°C
Display	
Inputs	8 Pin DIN
Outputs	
Cell Constant cm^1	0.07 to 14.99
Standard Cell	011510
Data Logging (Points)	25
Print Capability	Yes
Power Requirements	9V Battery, AC Line, 110, 220, or 240V
Agency Approvals	CE, CSA, UL, FCC
Environmental Requirements	5 to 40 °C, 5 to 85% RH, Non-Condensing
Waterproof Rating	--

Ordering Information

ITEM	DESCRIPTION
014500	Orion 145A+ with Probe
0145A9	Orion 145A+ without Probe