Star Series
Specifications

Orion 3-Star
Conductivity

Portable Meter (Cat. No. 1214000)
Portable Meter Kit (Cat. No. 1214001
or 1214003)

- Durable, waterproof, IP67 meter stands up to the most demanding field applications while delivering over 2,000 hours of continuous operation.

- Easy-to-use meter provides reliable, accurate conductivity, resistivity, salinity, TDS and temperature measurements.

- SMART STABILITY™ and SMART AVERAGING™ functions for automatically optimized accuracy, precision and response time

- Storage of up to 10 password protected methods for easy retrieval of operation procedures

- Flexible direct and auto recognition calibration

Environmental Instruments
Water Analysis Instruments

166 Cummings Center
Beverly, MA 01915 USA

Toll Free: 1-800-225-1480
Tel: 1-978-232-6000
Dom. Fax: 1-978-232-6015
Int'l. Fax: 1-978-232-6031

www.thermo.com/water

Registered Quality System
ISO 9001:2000

Specifications	
Conductivity	
Range	0.00 to 3000 mS/cm, auto resolution with cell constant dependence
Resolution	4 significant digits down to 0.001 µS/cm, cell constant dependent
Relative Accuracy	0.5% ± 1 digit or 0.01 µS/cm, whichever is greater
Cell Constant	0.001 to 199.9
Cell Compatibility	2 Cell, 4 Cell, Planar Cell
SMART STABILITY™ and SMART AVERAGING™	Resolution dependent / automatic
DirectCal™ / AUTO-CAL™	1 to 5 points / 1 to 3 points
Resistivity	
Range / Resolution	0.0001 to 100 Megohm / 0.0001 Megohm
Relative Accuracy	0.5 % ± 1 digit
Salinity	
Range / Resolution	0.01 to 80.0 ppt NaCl equivalent, 0.01 to 42ppt practical salinity / 0.01
Relative Accuracy	± 0.1 ± 1 digit
TDS	
Range / Resolution	0 to 19999 / 1 mg/L
Relative Accuracy	± 0.5 % ± 1 digit
Adjustable TDS Factor	0.00 to 10.00
Temperature	
Range / Resolution	-5 to 105 °C / 0.1 up to 99.9 °C, 1.0 over 99.9 °C
Relative Accuracy	± 0.1 °C
Temperature Compensation	nLF, linear 0.0 to 10.0% / °C
Display	Custom backlit LCD, for easy viewing
Inputs/Outputs	
Sensor Inputs	Conductivity-miniDIN - Locking (waterproof)
Communications	Waterproof bi-directional RS232 - Stereo jack, optional USB interface Cable
Special GLP Software Features	
# Of Data Logging Points	200 points by time, stability or manual read with time/date stamp
Calibration Log	Last 10 Calibrations
User Method Storage	10 Saved
Advanced Self-test and Diagnostics	YES
Password Protection	YES
Internet Software Updates / Downloadable Methods	YES
Power	4 x AA batteries, powerless date protection
Regulatory and Safety	CE, CSA, UL, TÜV, FCC Class A limits
Environmental Operating Conditions	
Ambient Operating Temperature	5 to 45 °C
Relative Humidity	5 to 85% Non-Condensing
IP Rating	IP67, waterproof and dustproof
Warranty	36 months (from date of purchase)

Above data generated under optimal/controlled circumstances.

Conductivity Portable Meter Kit (1214001) Includes:	
Cat. No.	**Description**
1214000	3-Star Conductivity portable meter
013005MD	Conductivity cell, 1.5m cable
011007	Conductivity/TDS standard 1413 µS/cm, 5x60 mL
1210004	Hard field case

Analyze • Detect • Measure • Control™

Thermo
ELECTRON CORPORATION