Auto titrator: Orion Star T940 All-in-One Titrator
Titrator measurement mode: **pH, Redox, ISE -** Microprocessor controlled titration unit capable to carryout potentiometric titration Measuring parameters: pH (-2.000 to 20.000), pH Resolution 0.001, 0.01, 0.1 (user selectable), pH Relative Accuracy ±0.002 pH, mV Range (-2000.0 to +2000.0 mV), mV Resolution 0.1 mV, mV Relative Accuracy ±0.2 mV, ISE Range 0.0001 to 19990, ISE Resolution 0.0001 minimum, 1 to 4 significant digits (user selectable) ISE Relative Accuracy ±0.2 mV or ±0.05% of reading, whichever is greater Temperature Range -5.0 to 100.0 °C; 23.0 to 212 ° Temperature Resolution 0.1 °C; 0.1 °F, Temperature Relative Accuracy ±0.2 °C
Titrator measuring method: Automatic end point detection, Equivalence point or preset endpoint, Multiple known addition (MKA), Standardization with automatic titrant concentration correction
Electrode: Premium quality Orion ROSS electrodes with sure flow technology
Calibration Modes: 1 to 5 point pH, 1 point relative mV, 1 to 5 point ISE
Titration Types: Direct or back titration
Titration Precision: ±0.5 % RSD, dependent on environment and handling conditions
Burette dosing: Burette Size 10 mL, 20 mL (included), 50 mL, Burette Resolution - Advanced micro-step technology provides 25,600 micro-steps per motor revolution for smooth and precise burette positioning (2 million micro-steps over full burette stroke range), Burette Dosing Accuracy - Meets ISO8655-3 requirements, Burette Functions -Automatic rinse cycles for flushing and discrete dispense volume with continuous option
Stirrer Probe Speeds: 5 selectable speeds, 250 to 3700 RPM
Display Type: 5.7" color capacitive touchscreen, 640 x 480 resolution, with lab glove compatibility
Display Backlight: Yes, with adjustable brightness
Interfaces: USB-A – 2 no. of ports, USB-B – 1 no. of port for attachments to PC, Printer.
Customizable Methods: Up to 10 methods with optional password protection
Methods Transfer: Import/export via USB flash drive, summary to computer software or compact printer
Data Logs: Sample titration, titrant standardization, calibration, direct measure – 100 data sets each
Data Log Export: CSV or Report (PDF) file
Time and Date: Yes, with nonvolatile battery backup
Audible Notifications: Titration Cycle Complete, Maximum Titrant Volume, Data Log Full, Calibration Due, Maintenance Reminder
Updateable Firmware: Using USB flash drive
Sample ID: Auto-incremental, manual or off
Certifications: CE, TUV 3-in-1, FCC, EN/IEC 61326-1, IEC 61010, IP-51