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Orion AF7LC

Low-Level Coulometric Titrator

The Orion AF7LC is specifically designed for optimum performance at low moisture levels. Analyze solvents and liquid reagents to detection levels of 1 ppm.



Karl Fischer Low-Level Coulometric Titrator Orion AF7LC

- Orion AF7LC - Precision at low moisture levels.
- Instrument monitoring of analyte/catholyte life - no need for operator monitoring.
- Ion-permeable membrane - eliminates the problem of clogged ceramic disks.

The AF7LC performs sample analysis in the 10 ppm moisture range and can routinely operate at 1 ppm with low CV's. It is an absolute method, which eliminates the need for calibration of reagents. Instrument set-up and titrations are simple to perform - just press the YES/NO keys or enter numeric variables in response to user prompts on the 2 x 20 character liquid crystal display. Each entry is monitored, out-of-range entries are rejected and the acceptable range is displayed. The ability to program and store up to three titration methods, eliminates

the need to re-enter analysis parameters each time the instrument is turned on. The moisture status in the vessel is continuously presented on a bar graph display. The Orion AF7LC vessel is compact and is specifically designed for repetitive sample analysis at low moisture concentrations. The use of ground glass joints completely eliminates moisture ingress, permitting the user to produce excellent CV's when working at or near detection limits.

Orion AF7LC

Measure samples with low moisture levels economically with the Orion AF7LC Coulometric Titrator.

Orion AF7LC Specifications

	Specification	Benefit
Titration Method	Coulometric	Low-level precision
Titration Speed	2 mg/min	Low current, better accuracy
Moisture Range	1 ppm to 100% H ₂ O	Variety of samples
Precision	0.3% at 10 mg H ₂ O	Better precision at low-levels
End Point Potential	Fixed	
End-Point Time/Level	1 to 50 µg/min	
Background Correction	Yes	Better accuracy
Factor Range	0.1 to 100%	Use many moisture standards
Blank Range	0 to 10 mg	
Programmable Methods	3 stored methods, 1 default methods	Great for multi-user labs
Result Units	ppm - % - mg	Result units of your choice
Display	LCD, 2 lines x 20 characters	Easy to read
Keyboard	Membrane, 24-function	Chemically resistant
Printer (Internal)	24 character, thermal	No need for addition cables/printers
Statistics	25 tests	Better sample QC
Stirrer Speeds	200 to 1000 rpm	
Interfaces	(2) RS232 for	Balance and computer
Vessel Capacity	150/200 mL	
Reagent Handling	Manual fill & drain	Quick to refill reagents
Dimensions	H 54 cm, 21 in W 33 cm, 13 in D 24 cm, 9 in	
Agency Approval	CE	Worldwide operation

Above data generated under optimal/controlled circumstances.

Orion AF7LC Ordering information

Orion #	Description
319040001	Model AF7LC Karl Fischer Coulometric Titrator complete with low current titration vessel, and electrode, built-in printer, siphon bottle and funnel, dual RS-232 interface and accessory kit. 105-120 VAC, 50-60 Hz.
319040000	Model AF7LC Karl Fischer Coulometric Titrator complete with low current titration vessel, and electrode, built-in printer, siphon bottle and funnel, dual RS-232 interface and accessory kit. 210-240 VAC, 50-60 Hz.