

Titration

Coulometric Karl Fischer Titration



Coulometric Karl Fischer Titration

Low-Level Water Determination

Denver Instrument offers a unique, and cost savings, approach to Coulometric Karl Fischer Titration. Choose a basic titration controller or a complete electrochemistry meter. Then add up to four of the titration modules.

- Easy setup and operation.
- Measure samples with mere micrograms of moisture.
- Perform up to four titrations simultaneously, thanks to separate interconnectable 275KF titration modules.
- Time/date stamp on printouts to meet GLP requirements.
- Up to ten customized procedures can be stored and easily recalled.
- Calculate statistical data for up to five results.
- Simple to interface with computer or printer. Automatically prints titration reports.
- The system automatically compensates for the drift rate of ambient moisture entering the cell.
- Automatically gives message when reagents have been depleted. Press a single key for reagent condition.
- Perfect for determining water content in petroleum products, pesticides, detergents, foods, pharmaceuticals, chemicals, solvents and more.
- The 270 is not just a KF titration controller- it's a complete laboratory for electrochemical analysis. In addition to monitoring up to four titration modules, it offers four other measurement input channels for any combination of pH, mV, ion or conductivity. This allows you to display as many as eight channels simultaneously.



Titration Controller Specifications (Model 270)

| | |
|--------------------|--|
| Display | 4.8"W x 3.6"H Backlit VGA resolution with full-screen display of titration progress. |
| Keypad Controls | Sealed; audible entry |
| Data Memory Points | 620 |
| Power-on Self-test | Yes |
| Error Messages | Yes |
| Data Output | Print key; at end of titration; custom time intervals |
| Alarm | High/low set points for all modes |
| I/O | RS-232C to computer or printer; serial network to titrator modules |

Model 270 Additional Modes

| | |
|--------------------|---|
| Conductivity Range | 0 to $3 \times 10^5 \pm 0.5\%$ $\mu\text{S}/\text{cm}$ |
| Salinity Ranges | 0 to 70 ppt NaCl equiv. salinity; $\pm 0.5\%$, 0 to 42 ppt Practical Salinity; $\pm 0.5\%$ |
| Resistivity | 30 to 100 megohm*cm; $\pm 0.5\%$ |
| pH | -2.000 to 20.000; ± 0.001 ; |
| Ion | 1.00×10^9 to 9.99×10^9 ; $\pm 0.09\text{n}\%$ |
| mV | ± 2400.0 ; $\pm 0.05\text{mV}$; one mV offset |
| Temperature | -5.0° to +105°C; $\pm 0.1^\circ\text{C}$ |
| Inputs | Two BNC/pin/ATC; 1 DIN conductivity/ATC |

Titration Specifications (Model 275KF)

| | |
|------------------|---|
| Range | 10 μg to 20mg H ₂ O |
| Accuracy | $\pm 2\mu\text{g}$ or $\pm 0.5\%$ |
| Resolution | 0.1 μg |
| Rate | 3500 μg H ₂ O/min. (maximum) |
| Endpoint Control | 0 to 99 sec. persistence time and 0 to 9.9 $\mu\text{g}/\text{sec.}$ slope (programmable) |
| Capacity | 1000mg H ₂ O (for single charge reagents) |

 **DENVER
INSTRUMENT**
Precision laboratory instruments since 1880

1401 17th St. Suite 750
Denver, Colorado 80202
800.321.1135
303.431.7255
303.423.4831 FAX
www.denverinstrumentUSA.com