



Be Right™



CA610 Fluoride Analyzer

The CA610 Fluoride Analyzer uses advanced ion-selective electrode (ISE) technology for continuous monitoring of fluoride concentration in drinking water effluent. Accuracy is ensured with precise control of temperature, ionic strength, and pH. Interferences that can bias measurements are virtually eliminated with this electrode.

The electrode of the CA610 analyzer is made with a molded fluoride crystal tip. The working life of the electrode is approximately one year. The specially designed tip of the electrode should be replaced every six months. Electrodes are equipped with BNC connectors so that they can be independently checked with laboratory electrochemical meters.

The ISE system of the CA610 analyzer includes a reference pH electrode and a working electrode. Three reagents are used: Total Ionic Strength Adjustment Buffer (TISAB) solution and two fluoride standards. The Ionic strength adjustment lets the electrode respond to concentration instead of activity. The pH control ensures fluoride is present in its ionic state. The Weak complexes formed by certain metals (for example, aluminum) are broken up by TISAB and chelates potential interferents for accurate fluoride measurement.

Two calibration standards are fully enclosed in the CA610 analyzer's case. The instrument performs a 2-point calibration at 0.5 and 5.0 mg/L fluoride at user-selected time intervals. Automatic calibration intervals can be set for 1 day to 1 month. Readings and calculations of the most recent calibration is stored in the instrument.

Part Number	Power Requirements (Voltage)	Reagents included	Documentation	Range	Lower Limit of Detection (LOD)	USD Price
5740001	100 - 115/230 V AC	Yes	Worldwide, except Europe	0.1 - 10.0 mg/L Fluoride	0.10 mg/L 0.10 ppm	Contact Hach