

## Teledyne LXT 220 – Fluoride Ion

Features	Benefits
<ul style="list-style-type: none"> <li>Fluoride ISE electrode</li> </ul>	<ul style="list-style-type: none"> <li>Fast and Accurate Fluoride Measurement</li> </ul>
<ul style="list-style-type: none"> <li>pH. electrodes</li> </ul>	<ul style="list-style-type: none"> <li>Fully pH Compensated and reporting</li> </ul>
<ul style="list-style-type: none"> <li>Rugged 316ss Design</li> </ul>	<ul style="list-style-type: none"> <li>Removable electrode guard for easy maintenance</li> </ul>
<ul style="list-style-type: none"> <li>Replaceable ISE Cartridge</li> </ul>	<ul style="list-style-type: none"> <li>Integral Temperature Compensation</li> </ul>
<ul style="list-style-type: none"> <li>Internal Signal Conditioning</li> </ul>	<ul style="list-style-type: none"> <li>Amplified signals allow up to 200 meters between Sensor and Analyzer</li> </ul>



### Description

Teledyne Model LXT-220 is a multi-channel analyzer capable of making powerful analytical measurements in a simple and easy to use transmitter. The Model LXT-220 allows for incredible flexibility in the selection of inputs and outputs. The multi-functional architecture allows the analyzer to make simultaneous measurements includes, pH, ORP, pION (ISE), Dissolved Oxygen, Conductivity including % concentration and Resistivity. In the LXT-220 Fluoride Analyzer, user may have a standard Fluoride Ion and an optional pH measurement capability.

Feature:

Single Panel Design, Complete with pH & ISE Sensor



LXT 220 Fluoride Analyzer, measures the concentration of ionic Fluoride (F-) in water. The sensor is based on the Ion Specific Electrode principle and Teledyne's specific ion sensor (pION) is a proven design that has been tested in a variety of industrial applications where competing sensors did not provide the necessary accuracy or product life based on the customer's expectations. Teledyne's Fluoride Ion electrode operates over a wide pH range with a capability to handle a wide temperature range. In addition, the electrode can survive in pressure up to 100 psi @ 25 deg C. The sensor's shelf life will vary with the selected ion. In general, one year can be expected if kept wet. The Fluoride sensor is not sensitive to positioning and can be installed in a myriad of installation possibilities.

Application Served:

- Potable/Drinking water quality
- WWTP, agriculture water quality
- Etching and semi conductor
- Boiler feed water
- Pharmaceutical water purity
- Detergent manufacturing
- Municipal aquarium
- Many more.

# Specifications LXT 220 Fluoride Analyzer

## Sensor

pH & Fluoride ISE Sensor

## Measurement Range

Concentration 0.02 to 2,000mg/L maximum range  
pH range: 5-8 pH

## Sensor Temperature

0° C to 80° C

## Pressure Range

15-65 psi @ 25 deg C

## Display

Menu driven 2.5" x 1.75" backlit supertwist LCD,  
With multiple process value displayed

## Accuracy

± 0.1% of reading, dependent on Calibration

## Response Time

T90 10 secs

## Electrode Life

ISEs: 4- 6 months, typical  
pH electrode: 6-ti2 months, typical

## Temperature Compensation:

Automatic with RTD, -30 deg C to 140 deg C. Accuracy within +/- 0.1 deg C from 0 to 100 deg C

## Outputs:

4-20 mA Linear and expandable

## Enclosure

NEMA 4X, LxWxD: 5.7" x 5.7" x 7

## Linearity

+/- 0.05% of full scale

## Sensitivity

+/- 0.05% of full scale

## Repeatability:

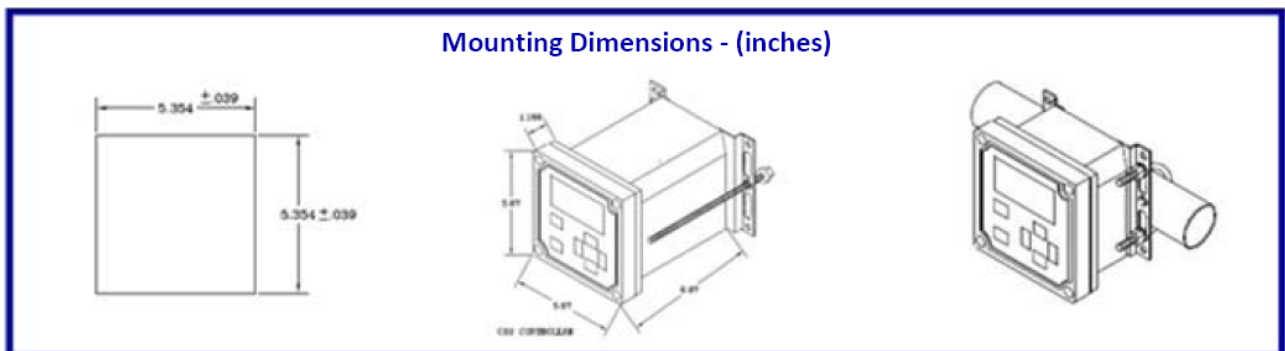
+/- 0.1% of full scale

## Input Power

110/220 VAC @ 50/60 Hz, optional 24VDC nominal @ 0.25A  
Max Loop Impedance: 800 ohms @ 24VDC

## Alarm Relay Ratings

(2) SPDT 230 VAC/5A or 30 VDC/5A resistive max.  
Relay



## Dimensions

### TELEDYNE ANALYTICAL INSTRUMENTS

A Teledyne Technologies Company

16830 Chestnut Street

City of Industry, California 91748, USA

TEL: 626-934-1500 or 888-789-8168

FAX: 626-934-1651 EMAIL: [ask\\_tai@teledyne.com](mailto:ask_tai@teledyne.com)

[www.teledyne-ai.com](http://www.teledyne-ai.com)

Instrument is warranted for 1 year against defects in material or workmanship

NOTE: Specifications and features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. All specifications and features are subject to change without notice.



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