

## Technical Information:

**Date:** June 01 2004  
**Subject:** Fluoride Measurement System Data  
**Product:** Fluoride Sensor System  
**Category:** D1C - Fluoride  
**Page :** 1 Page

This Fluoride measurement system is designed for measurement of Fluoride in potable water. The heart of the system comprises of a Fluoride sensor, reference electrode and temperature sensor all mounted on flow through assembly.

### System Data

Continuous direct measurement of Fluoride.

Measurement of  $F^-$  ions directly without addition of buffers or reagents ( TISAB )

pH Range 5.5 – 8.5

Measurement Range 0.05 – 10 PPM

Calibration With ProMinent DT2 Fluoride Photometer. ( SPADNS Method )

Temperature Range, 1° C .... 35 ° C

Recommended Sample Flow 20 ... 60 Litres Per Hour.

Fluoride Sensor – Europium doped Lanthanum Fluoride single crystal – solid ion conductor.

Fluoride Measurement Accuracy : Better than 2 % under constant conditions.

In order to maintain measurement accuracy, a periodic check of the Fluoride value should be done and calibration of the device performed if necessary.

Sensor Slope : -59.16 mV / concentration decade

Recommended Conductivity : > 100  $\mu S$  / cm

Temperature Sensor PT 100