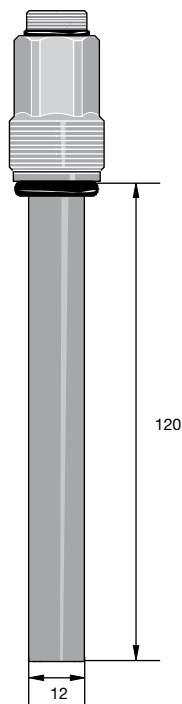


ProMinent® DULCOTEST® Sensors

Fluoride Sensors



pk_6_095

DULCOTEST® fluoride electrodes are ion-selective electrodes based on the potentiometric measurement principle. They are designed for determining the concentration of fluoride anions in aqueous solutions. These electrodes have been optimised for use in monitoring the fluoridation of potable water in waterworks. Corresponding conditions must be observed.

5.1.16 shows a complete measuring station. **FLE 010-SE**

A 4-20 mA measurement transducer, a reference electrode and a temperature sensor for temperature compensation are required as well as the fluoride electrode. Measured variable: Fluoride ion concentration

Reference method: photometric, see section 5.4.5: DT2A and DT2B photometers

Measurement range with measurement transducer: 0.05-10.00 mg/l

pH range: 5.5-8.5

Temp. range: 34-95 °F (1-35 °C)

Max. Pressure: 101.5 psi (7 bar) (no pressure surges)

Intake flow: recommended 5.3 gph (20 l/h): 2.6-26.4 gph (10 - 200 l/h)

Conductivity range: > 100 µS/cm

Response time T95 (open): < 30 s (for conc. > 0.5 ppm)

Enclosure rating: IP 65

Shelf life: approx. 6 months

Length when fitted: 4.72" (120 mm)

Shaft diameter: 0.472" (12 mm)

Typical application: monitoring the fluoridation of potable water in waterworks

Measurement and control equipment: D1C

in-line probe housing: DLG IV

Part No.

| | |
|------------|---------|
| FLE 010-SE | 1010311 |
|------------|---------|

Accessories

| | |
|-------------------------------------|---------|
| 4-20 mA measurement transducer F V1 | 1009962 |
| Sensor cable | 725122 |
| Reference electrode, REFP-SE | 1018458 |
| Temperature sensor, Pt 100 | 305063 |
| Polishing paste | 559810 |