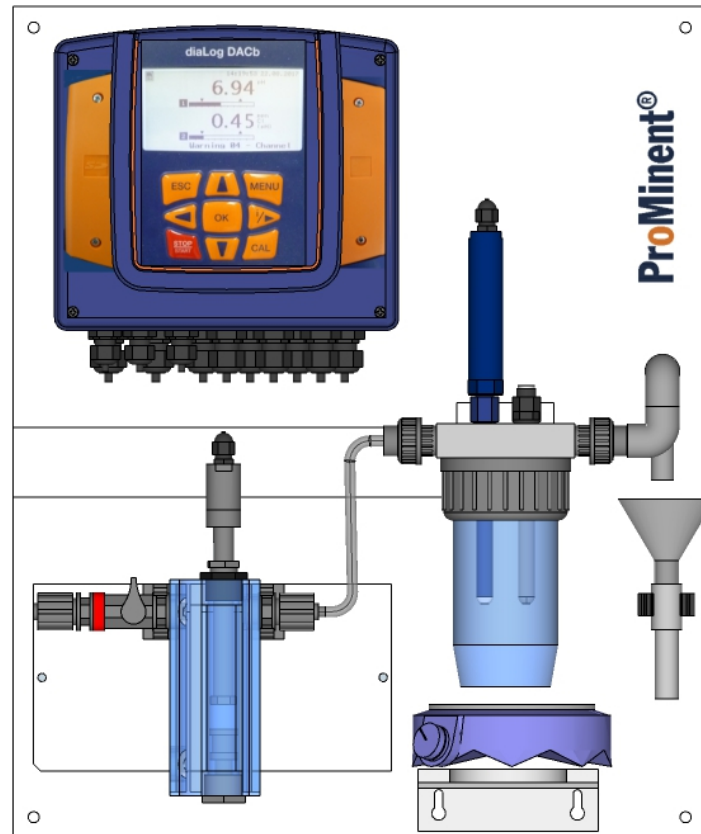


ProMinent Dulcometer Fluoride Analyser

Reagent Free Fluoride Monitoring



Measured Variable, Fluoride in Drinking Water

Measurement Principle and application

The DULCOMETER fluoride meter is a potentiometric meter which uses an ion selective electrode (ISE) and a reference electrode to deliver a measurement signal in mV. The expertise of the newly developed fluoride ISE lies in the physical-chemical characteristics of the LaF3 crystals and the ion electrolytes which permit long-term stable and continuous measurement without additional use of special conditioning chemicals. Photometric measurement-based calibration is necessary only when commissioning and at occasional intervals. The typical and only use of our fluoride meter is for continuous monitoring at waterworks in which fluoride is metered for the prevention of tooth decay. Installation conditions for the fluoride electrode.

Technical Data

Measurement range	0.05... 10 mg/l fluoride	
pH range:	5.5... 8.5	
Temperature range:	0-35°C	
Max operating pressure	1 bar	
Part Number:	Fluoride Monitor mounted on panel with REFR	PA56003465
	Dual Channel Fluoride Monitor with REFR	PA56003466

Note: The maximum admissible operating for the following mounted measurement equipment is 2 - bar.

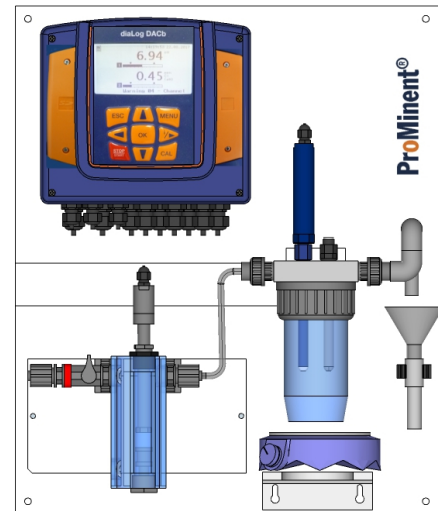
ProMinent Dulcometer Fluoride Analyser

Fully-mounted Fluoride Monitor

For quick and easy installation, our fluoride meter is supplied ready-mounted on a PE panel. The following components are included:

- FLEP 010 SE fluoride sensor
- Reference electrode
- Pt 100 SE temperature sensor
- 4-20 mA FVP1 measurement transducer
- DLG IV inline probe housing for electrodes
- DACb diaLog fluoride monitor, with display of fluoride concentration and temperature, with automatic temperature compensation, 0/4... 20 mA output for measured variable, with pause control input, alarm and two threshold value relay outputs, (90-253 VAC)
- Magnetic stirrer with magnetic stirring rod for stirring sample water during calibration
- PVC pipework with ball stop/adjustment valve, rotameter with sample water connector

All parts are ready mounted on a white 600 x 500 mm PE panel



PA56003465 - with REFR Standard Supply

Note: c/w air-break, REFR reference electrode, 25m 8x5 sample line, and 1 x 1/2" BSP to 8x5 PVC adaptor.

Double Validation Unit

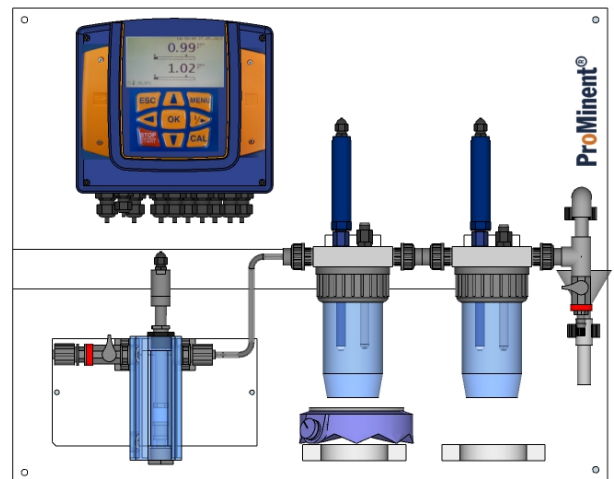
Using the same sensors as for the single measurement stations, the dual measurement station can be used to give an alarm output if the 2 measured variables differ more than a present amount.

This means that the unit can be used where there is a requirement for double validation. A 0/4...20 mA output is available for each channel of the 2 channel diaLog instrument.

A single magnetic stirrer is provided as standard as normally one channel is calibrated at a time. A second magnetic stirrer is available as an option.

Both options with the REFR or the PHEN reference electrodes with flowing junctions are available.

All come pre-mounted on a 750mm wide x 600mm high panel, fully wired.



PA56003466 - with REFR Standard Supply

Note: c/w air-break, REFR reference electrodes, 25m 8x5 sample line, and 1 x 1/2" BSP to 8x5 PVC adaptor.