FluoriSense

Continuous Online Fluoride Meter

The FluoriSense range of Fluoride Analyzers from Pi utilize the very latest and best Fluoride sensors available in the world today for measuring the online Fluoride of any potable water. They are ion selective electrodes (ISEs) with integral reference, automatic temperature compensation and solid polymeric junction, which use no reagents, are extremely stable, and have reduced maintenance and reduced whole life costs.

- Up to 2 years continuous operation
- Stable and reliable excellent process control
- Suitable for all potable waters
- Integral temperature compensation

"The Fluoride sensors from Pi are much more

• Suitable for use in Autoflush (see separate brochure) stable than others we've tried and give excellent

results" Chris Naidoo, NZ

The FluoriSense sensors and flow cells are available with different controllers giving you the same great performance with different communication, display, and control options. With the FluoriSense range of online Fluoride meters, you get everything that you need - and nothing that you don't.

CRONOS® FluoriSense



- High Quality Lowest Cost
- Multilingual
- High resolution grayscale display
- 9 buttons for easy navigation
- · Graphing and datalogging
- Enclosure; wall, panel, pipe or pole mounting. IP65/Nema 4x.
- Options:
 - Modbus RS485/LAN
 - Profibus
 - Up to 2 sensors
 - PID/flow proportional controls
 - Remote sensors
 - Color display
 - Downloadable data logs

CRIUS® FluoriSense



- Highest Quality Low Cost
- Multilingual
- High resolution color display
- Intuitive user interface
- Customizable home pages
- All CRONOS® options plus:
 - Up to 4 sensors
 - Remote access via LAN
 - Remote access via GPRS
 - Expandable to 16 sensors

For more information please see the individual brochures - CRONOS® and CRIUS®

Principle of Operation

Nearly all Fluoride Analyzers are based on Fluoride ISEs. In some the accuracy is increased by continually dosing the sample with an Ionic Stabilising Solution, typically known as TISAB (Total Ionic Strength Adjustment Buffer). These buffers do help "fix" the ionic strength of a solution but in doing so introduce a cost and complexity that is considered by many to be unnecessary in drinking water fluoride dosing control.

The FluoriSense does not use TISAB and therefore is only suitable for use in applications where pinpoint accuracy is not critical and where the ionic strength of the water is relatively stable.

In many applications the FluoriSense is used primarily to ensure that the flow proportional dosing is working well and in these applications the FluoriSense is ideal providing a relatively low cost, easy to install and monitor, reliable solution.

Even with the additional functionality that this unit has to offer, the purchase costs are typically very significantly less than its competitors.

Multi-Sensor Systems

The whole range of FluoriSense analyzers can be fitted with additional sensors such as chlorine, ORP or pH. Please ask your local distributor for more details.

"Multi-sensor systems can save considerable sums without compromising measurement integrity"

Dr Craig Stracey, UK

Installation

The FluoriSense can be installed in a variety of auxiliary flow cells and self-cleaning devices.



FluoriSense in a single closed flow cell



FluoriSense in a single open flow cell

Specification*

FluoriSense

ISE (Ion Specific Electrode)
Solid polymer junction
Fluoride
-56 ± 4mV at 25°C
1x10 ⁻⁶ M to saturation
(0.02 ppm - saturation)
5 to 7 pH at 1 x 10-6 M
5 to 11 pH at saturation
0 to 80°C continuous
80 to 100°C intermittent
less than 50 M Ω
±2%
300ml min ⁻¹
Electrode length - 155mm
Body diameter - 12mm
Cap Diameter - 16mm
Cable Length - 100cm
Manual using a test kit
Rinse the electrode thoroughly with DI
water and place the tip back in its cap.
Rinse thoroughly with DI water and store
dry. Replace the cap to protect the sensing
element.



Fluoride Sensor with cap

*All subject to change without notice