

DESCRIPTION

The Eagle Microsystems PFC-1000 Fluoride Analyzer utilizes a digital electronics to optimize the measurement of fluoride in water using selective ion probe technology.

The sensing element is a solid state selective ion probe with liquid/liquid junction with an internal reference. The receiving instruments provides a two line by 16-character LCD display and a simple, 4-pushbutton operator interface. Probes can be mounted as required for the application.

The analyzer provides the capability for monitoring or process control and provides a 4-20 mAdc output proportional to fluoride concentration.

FEATURES

- **Simple, user-friendly interface**
- **Field programmable**
- **Range 0.2 - 2.0 ppm**
- **Monitoring or Process Control**
- **Solid State Probe - type sensing element**
- **Self-cleaning sensor junction for stable, drift-free measurement**

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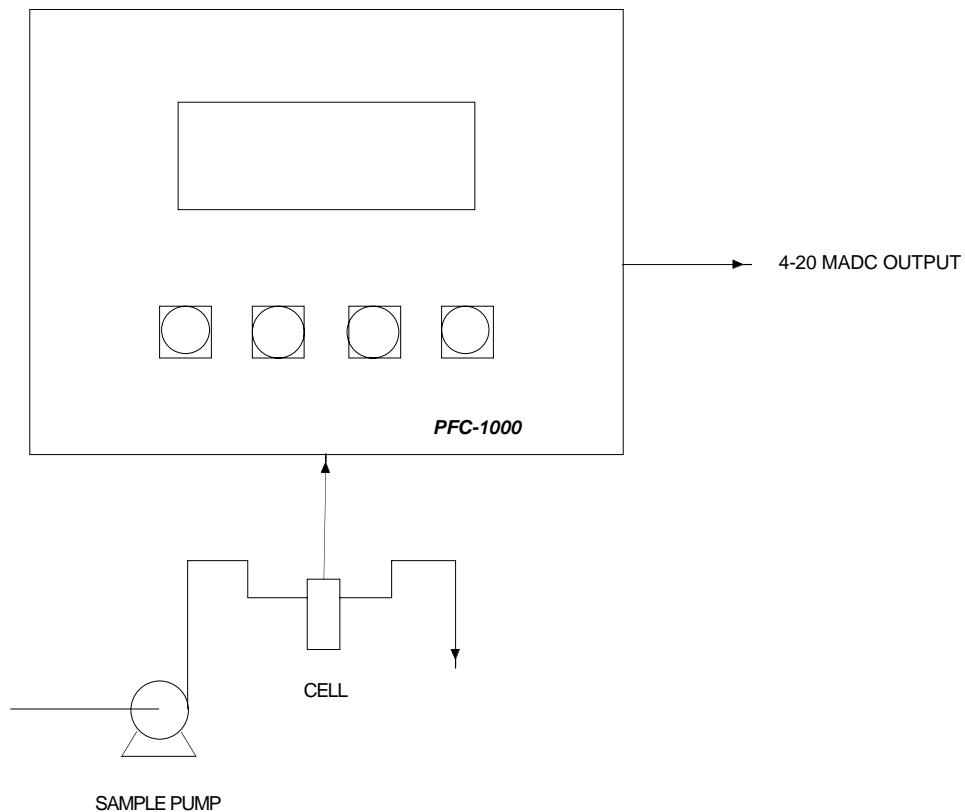
SPECIFICATIONS

SENSOR

- Range - 0.2 - 2.0 ppm
- Temperature - 0-80 degrees C.
- Probe type - solid state, liquid/liquid junction, selective ion type with integral reference
- Probe material - Glass

INSTRUMENT

- Input - Fluoride selective ion probe
- Output - 4-20 mAdc
Three contacts – 1.2A@120Vac
- Display - 2 - line x 16 - character LCD
- Operator interface - Menu driven, 4-pushbutton control
- Enclosure - NEMA 4X, fiberglass
- Mounting - Wall or surface





SPECIFICATION
MODEL PFC1000 FLUORIDE ANALYZER

The fluoride analyzer shall utilize selective ion probe technology to measure the fluoride concentration in water. The unit shall be wall mounted and shall display the measured value on an easy to read, backlit LCD indicator. A 4-20 mAdc output signal proportional to measured fluoride residual in the sample shall be provided. The fluoride analyzer shall be Eagle Microsystems, Inc. Model PFC1000 or approved equal.

The analyzer shall have a selective ion probe mounted in an easily removable, transparent, angled PVC flow-through assembly. The angled electrode assembly shall insure that the sensor tip is scoured clean by the sample flowing past the electrode tip. The flow-through assembly shall have an air break to insure that no entrained air is permitted to remain in sample. A sample of water to be analyzed shall be pumped to the wall-mounted analyzer, and after analysis the sample shall be fed by gravity to a suitable drain. Sample pump shall be provided by others. The sample flow shall be 5 gpm, maximum.

The probe shall be of the glass combination selective ion type with liquid/liquid junction, and integral cell reference. Cell range shall be 0.2 to 2.0 ppm. The electrode shall be temperature compensated.

The monitor/controller shall be a microprocessor-based instrument with the capability to accept one process input from the fluoride probe and provide a 4-20 mAdc output signal representing the fluoride concentration for recording purposes or for input to other remote instrumentation. The output can also be configured as a controlled output for control of a fluoride feed system. A second 4-20 mAdc output can be furnished as an option. The instrument shall provide a 2-line by 16-character, menu-driven, backlit, LCD operator display with English language tags. The operator interface shall utilize a simple keypad with four (4) tactile feedback pushbuttons for all process and configuration inputs.

The instrument shall be provided with three (3) solid state process alarm contacts. Contact rating shall be 1.2 amps at 120 Vac. Alarms shall be user configurable, and set point and alarm values shall be displayed on the LCD operator indicator. An RS232 serial output shall be optionally available to provide a direct serial process interface to a process computer system.

The fluoride analyzer with integral monitor/controller shall be mounted on a white polyethylene panel for wall mounting. The monitor/controller shall be housed in a NEMA 4X fiberglass enclosure. Power requirement shall be 120 Vac, 50/60 Hz.