

Systems, Inc.

Membrane Fouling Monitor PM2500XRD



BENEFITS

- Reduce RO/NF Membrane Particulate Fouling
- Reduce Membrane Replacement Costs
- Increase Flux Rates, Maximize Throughput
- Ensure Downstream Equipment Performance
- Continuous Process Monitoring

FEATURES

- Analog Outputs
- Up to 3 Additional Sensors Input to One Monitor
- Backlit Graphical LCD Display
- Simple Calibration Verification Procedure

DESCRIPTION

Reverse Osmosis and Nanofiltration performance is directly affected by the feedwater quality. The Membrane Fouling Monitor is a sensitive low-maintenance device that alerts operators to the presence of particulate contaminants allowing corrective action to be taken at the pretreatment system before the membranes are fouled or damaged. The PM2500XRD is an on-line instrument that continuously measures the fouling potential of liquids fed to high purity filtration systems.

MEASUREMENT PRINCIPLE

The Membrane Fouling Monitor, Model PM2500XRD, uses a unique measurement of "Dynamic Light Fluctuation" which can detect low parts per billion of particulate down to the colloidal size range of 1 micron. The system provides "predictive" fouling information that has historically been measured by silt density index (SDI). The on-line, flow through sensor eliminates sampling/testing variances encountered in manual SDI analyses. Sensors can be multiplexed to provide complete, real-time monitoring of individual filters or any other component of the pretreatment system.

RO/NF/Membrane Pretreatment

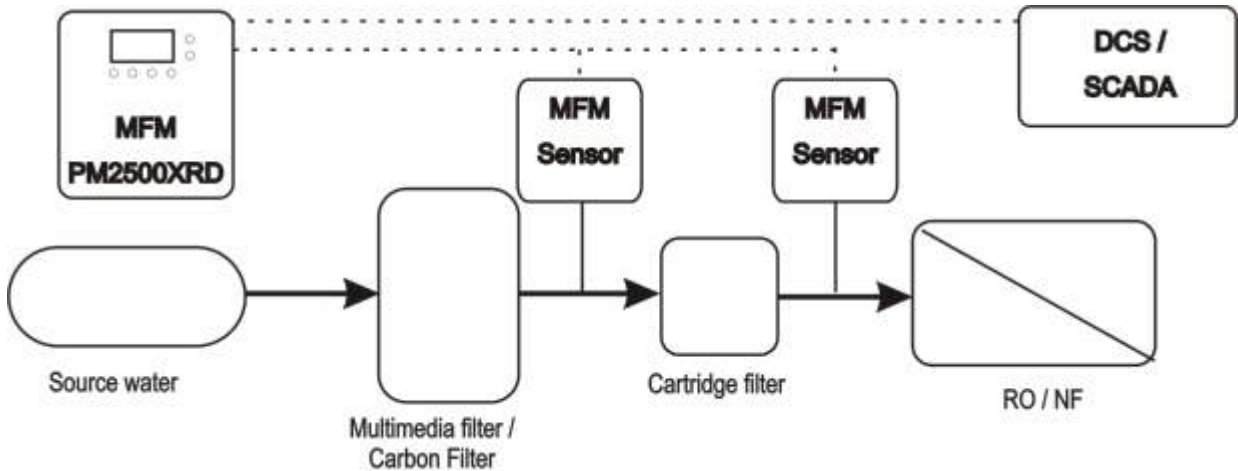
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GENERAL SPECIFICATIONS

Power	110 VAC, 60 Hz (standard) 220 VAC, 50 Hz (standard)	Sample Cell	1/8" I.D., 3/16" O.D.
Sample Cell Type	Flow Through	Particle Size Range	1 micron and above
Materials Contacting Sample	Tygon / Teflon / Glass	Fouling Index	0-9,999 FI
Enclosure type	Nema 4X, Polycarbonate wall mount	Signal Output	4-20mA proportional to reading
Module Size	11.25" W, 8.5" H, 5.5" D	Self Diagnostics	4-20mA proportional to cleanliness
Weight	7.5 lbs.	Sample Flow Rate	100mL/Min
Operating Temperature	32 degrees F to 120 degrees F	Sensor Response Time	< 2 Seconds

TYPICAL INSTALLATION

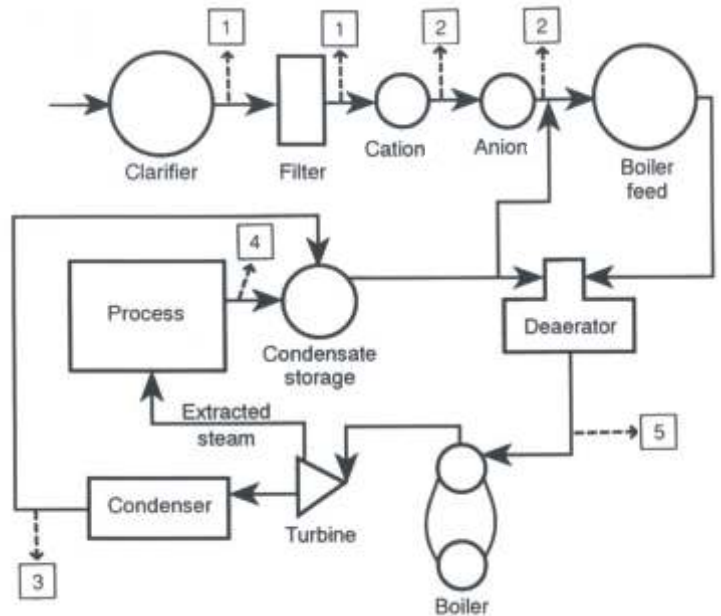


OTHER PM2500XRD APPLICATIONS

BOILER SYSTEMS

(See Diagram)

1. Filter Influent/Effluent (Colloid Breakthrough).
2. Cation/Anion Effluent (Resin Leakage).
3. Surface Condenser (Leaks).
4. Process Condensate (Iron/Particulate).
5. Boiler Feedwater (Contaminants).



DRINKING WATER
FOOD & BEVERAGE
MF / UF INTEGRITY

Chemtrac Systems, Inc.
 Represented By