

With the FilterSense range of Particle Counters you get a world's first. The first particle counter to allow multiple sensors on a single analyser. The FilterSense is a low cost solution to monitoring filters for cryptosporidia and giardia sized particles.

Counts particle 2-100 microns

Counts and sizes 2-100 microns

Up to 3 user selectable size ranges (selectable at time of purchase)

Sapphire optics for extended life

User calibratable for a lower cost of ownership

P1 FilterSense

"Low cost, multipoint filter monitoring is here at last." **UK**

The FilterSense sensors are available with different controllers giving you the same great performance with different communication, display, and control options. Each sensor comes with a 'clean me' alert and can be run with a constant head weir or a flowmeter, to maintain a constant flow. FilterSense gives a low cost particle counter specifically designed to monitor filters.



find us at www.processinstruments.net

CRIUS[®] and CRATOS

Principle of Operation

As particles in a water stream pass through a measurement cell they break a laser beam. This break is measured by a detector opposite the laser beam and the number of breaks is equal to the number of particles and the size of signal (created as the particle passes through the beam) is proportional to the size of the particle. The FilterSense is unique in the marketplace in that it allows:

- Simple user calibration
- Set up direct from the instrument (no software/PC required)
- Multiple sensor capability
- Control with PID functions based on particle counts
- Multipoint monitoring

Applications

The most common application for a FilterSense is in water treatment and the optimisation or ongoing monitoring of filters. The FilterSense, when coupled with turbidity and differential pressure sensors offers onboard PID control of automatic backwash. FilterSense provide a low cost per point for filter breakthrough monitoring.

Other applications for FilterSense include:

- Pre RO monitoring
- Make up water monitoring
- Ultraclean medical device washing monitoring
- Membrane filtration monitoring

For more information please visit: www.processinstruments.net/products/particle-counter.php

Specification*

Laser Type: Cell Material:

Viewing Windows: Detection Range: Sizing Range: Flow Rate: Resolution: Coincidence Limit: Signal to Noise Ratio: Size Channels: Alarms: Laser Diode Life: Measurement Type: Comms:

Power supply: Ambient temperature: Process temperature: Cleaning: Enclosure rating: Display: Solid-state laser diode (780 nm) Nituff coated aluminium PEEK plastic (optional) Sapphire 2-750 microns 2-100 microns 75 ml/mins Better than 10% at 10 micron (ASTM-F658) 8,000 cnts/ml (20,000 cnts/ml - OPTIONAL) Better than 5:1 Up to 2 user selectable and total counts Sensor diagnostic, particle count limit MTBF 75,000 hours @ 55°C Light obscuration. Volumetric TCP/IP, Modbus, RS232, RS485, 4-20mA, profibus. HART 100-250 V AC, 50/60 Hz 8-36 V DC -20 to +50°C 0-50°C <5 mins, 6 monthly on clean water IP65 Value and Alarms at the same time, controller dependent

WATER WEIR OVERFLOW SIGHT GLASS SAMPLE INLET SENSOR TUBING TUBING SAMPLE DRAIN CUP SAMPLE OUT (TO SENSOR) FLUSH VALVE DRAIN CUP TUBING & OVERFLOW TUBING (TO DRAIN)

CRIUS FilterSense with overflow weir

* All subject to change without notice

everything you need, and nothing you don't find your local supplier at www.processinstruments.net

