

With the CounterSense range of Particle Counters you get a world's first. The first particle counter to allow multiple sensors on a single analyser. The CounterSense is a sophisticated particle counter with the capability to size and count particles from 2-127 microns.

- Counts particle 2-750 microns
- Counts and sizes 2-127 microns
- Up to 6 user programmable size ranges
- Sapphire optics for extended life
- User calibratable for a lower cost of ownership
- Suitable for use with CRONOS® or CRIUS®



The CounterSense 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.



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. The size of the signal (created as the particle passes through the beam) is proportional to the size of the particle. The CounterSense 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 capability

Applications

The most common application for a CounterSense is in water treatment and the optimization or ongoing monitoring of filters. The CounterSense, can be coupled with turbidity and differential pressure sensors and offers onboard PID control of automatic backwash and can provide datalogging and optionally remote access via the mobile phone network such that you can have your filtration expert in your plant wherever they are in the world.

Other applications for CounterSense 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/

Specification*

Laser Type: Cell Material:	Solid-state laser diode (780nm) Nituff coated aluminum	
	PEEK plastic (optional)	
Viewing Windows:	Sapphire	
Detection Range:	2-750 microns	00
Sizing Range:	2-127 microns	0
Flow Rate:	75ml/mins	
Resolution:	Better than 10% at 10 micron (ASTM-F658)	
Coincidence Limit:	20,000cnts/ml	a
Signal to Noise Ratio:	Better than 5:1	
Size Channels:	Up to 6 user selectable and total counts	
Alarms:	Sensor diagnostic, particle count limit	
Laser Diode Life:	MTBF 75,000 hours@55°C	
Measurement Type:	Light obscuration, Volumetric	
Comms:	TCP/IP, Modbus, RS232, RS485, 4-20mA, Profibus	
Power supply:	100-250V AC, 50/60Hz 8-36V DC	
Ambient temperature:	-20 to +50°C	
Process temperature:	0-50°C	
Cleaning:	<5 mins, 6 monthly on clean water	CRIUS ®
Enclosure rating:	IP65	
Display:	Value and Alarms at the same time, controller dependent	





*All subject to change without notice

Particles **Light Beam** Laser Dióde Photo Diode