

GULFTRONIC ON-LINE PARTICLE SENSOR



BETTER YIELDS. BETTER RETURNS.

The Gulftronic™ On-line Particle Sensor is a vision-based fixed in-line system that provides customers with continuous, real-time viewing and analysis of particulates under process conditions. The Gulftronic On-line Particle Sensor allows refinery operators to immediately see changes in the process stream without using sampling or lab analysis.

- For use on heavy oil streams
 - With or without Gulftronic Electrostatic Separators
- In-line, real-time analysis
 - Particle view, size/shape
 - Oil/water/sand/gas count, characterization

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SENSOR FEATURES

- High throughput
- 0.1 micron - 20,000 micron particle size options
- High speed imaging device
- Real-time monitoring of inflow

The sensor consists of an easy to install fused-glass, sealed camera and light for placement in the center of the process fluid stream. The seals contain no gaskets, ledges or steps to help keep the sensor clean even in the harshest environments. Capable of withstanding high pressure and temperatures with no product build up, the sensor provides microscopic, non-destructive viewing within the stream and measures 0.1 micron – 20,000 micron particle size options. The unit can easily detect all phases and separate them to give PPM/PPB distribution as well as size distribution of all particulates.

ANALYSIS SOFTWARE

- Particle area, perimeter, distribution
- Histogram distributions - Bin size
- Full data logging
- Visual verification via live images
- Percent passing by volume vs. size

Sensor analysis software, installed on a user-supplied PC, connects to the measurement system via Gigabit Ethernet Network. Operators can continually monitor, view and analyze particle size, shape and concentration data under a number of parameters with two-dimensional results. Live images can also be viewed from any networked PC. The system is configurable for multiple zones, allowing zone results to be compared to base line values for reliability and alarm-on-detection of a problem.

