



UV-VIS APPLICATIONS FOR IN-LINE PROCESS ANALYTICS



TRITON
Immersion Probe

TECHNOLOGY OVERVIEW

Blue Ocean Nova's UV-VIS full spectrum sensors are industry proven in-line sensors, provide real time process parameter analysis and full transparency into your manufacturing process. Our robust design, built for industrial processes, combined with a patented self-cleaning technology make Blue Ocean Nova sensors an invaluable quality control tool for use in any process environment. Hazardous area certified while keeping the same compact design allows for easy deployment. All Blue Ocean Nova sensors present a real time digital display of process parameters, and include multiple communication options for closed loop process optimization.

POPULAR UV-VIS APPLICATIONS

CLEANING VALIDATION

Blue Ocean Nova's process sensors have been specialized to improve cleaning validation by monitoring in-line real time chemical analysis using a UV-VIS probe system. The residual product or cleaning surfactant have unique fingerprints, or spectral signatures, which offers a metric to monitor the washout process with exceptional accuracy. Some of the benefit of a spectral cleaning sensor system include

- Efficient use of cleaning solvents
- Reduced contamination between batches
- Reduced cleaning times
- Increased equipment utilization
- Reduced sample handling and lab measurements
- Designed for CIP and SIP

COLOR ANALYSIS

UV-VIS spectroscopy is also perfect to measure complex color variations in a production process. Our full spectrum measurement allows for quick and accurate differentiation of complicated mixtures and can also precisely measure temperature changes when the material color changes with heat treatments. Subtle color changes due to chemical changes allow processes parameters to be maintained within defined limits and ensure quality reliability. Color measurements with Blue Ocean Nova UV-VIS sensor systems are ideal for a variety of industrial applications such as

- The presence or absence of a specific color in a material
- Full spectrum differentiation of colors, even while changing
- Subtle variations and exact determination of color accuracy using CIE color standard

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