



Rhosonics 8500 Series

Introducing
the most
advanced inline
concentration
analyzer for
liquids on the
market today.



THE HISTORY OF THE RHOSONICS 8000 SERIES ANALYZERS

The 8000 series was originally designed by Rhosonics for inline analysis of hydrocarbon mixtures, and to measure the concentration chemicals in chemical blending operations. Rhosonics is recognized as the leading provider for advanced inline concentration analysis, replacing other technologies such as mass and gamma densitometers, as well as online autotitrator systems. Rhosonics' analyzers provide the most reliable and accurate analysis of liquids with the least possible maintenance for a broad range of applications.

RHOSONICS 8500 SERIES

The launch of the Rhosonics Model 8500 marks the climax of 12 years of experience and 3 years of intensive development, to create the most advanced inline analyzer for liquids, suspensions, slurries and chemical blends available today. Making use of a "mix" of sensor technologies, including ultrasonic sound velocity, sound absorption, electrical conductivity and density, the 8500 provides the answer to both simple and complex analysis of liquids, while the exciting new features make it a simple and easy to install analyzer with little or no maintenance after installation.

HOW DOES IT WORK?

The 8500 series works with specific field proven sensors, like the recently developed "full-bore" flow through sensors, and analyzes the sound waves on specific properties like sound speed and sound absorption characteristics. This new and innovative technology provides an easy and more reliable analysis of liquids while they are flowing through pipelines, for example, oil in water mixtures, pulp consistency and measurement of suspended solids in waste water.

WHAT IS NEW ABOUT THE 8500?

Easy adaptation for many inline liquid measurement tasks

- Inline analysis of slurries, emulsion suspensions and chemical blends
- Full-bore flow through sensors avoid clogging
- Measure concentration from 0 to 100 wt%
- Possibility to measure more than just one component
- Bypass sensors for chemical streams available

DATA COLLECTION AND ANALYSIS

The Rhosonics 8500 is very easy to configure using the large Touch Screen operating panel. Trend charts, bar graphs and diagnostic screens greatly improve operator friendliness. Connection to Modbus, Profibus, Ethernet, RS232 and others.

BROAD SENSOR RANGE

Rhosonics has developed special full-bore sensors, leaving the product flow uninterrupted while preventing clogging of sensors. Spool pieces from 2" up to 36" are available to accommodate most applications. Sample cells are more frequently used for chemical blending systems and are available in 316 stainless steel, as well as PVDF, PEEK, PFA, and in ATEX approved versions.

ADVANCED ULTRASONIC ANALYSIS

Great new features have been added to make the Rhosonics 8500 more suitable for many industrial tasks involving the inline analysis of liquids. While the analyzer transmits and receives many ultrasonic waveforms per second, each of them is analyzed for integrity before it is further processed. This is one key feature that other sensors, like conductivity or density sensors, do not possess. Ultrasonic waves as applied by the 8500 series are harmless, but contain more information than several other competitive technologies together. One of the 8 models is capable of measuring trace levels of water in pure chemicals, without common problems like drift and the necessity to recalibrate the sensor.

MAKING ADVANCED INLINE ANALYSIS WORK

From simple inline "density" measurement up to analysis of multiple components in a solution, emulsion or other liquid mix, Rhosonics has proven its value time after time again, providing reliable service with minimal maintenance. The 8500 builds on this success with advanced ultrasonic and multi-sensor technology. This makes the 8500 the most versatile and easy to use and operate analyzer for inline tasks on the market today.