Rhosonics Analytical is proud to present the World’s first non-intrusive inline density meter which eliminates virtually all known disadvantages of existing systems on the market.

The Rhosonic sensor of the Model 9690 Ultrasonic Density Analyzer employs only one, simple to install, flush mounted probe, which can be installed in a tank or in an existing pipeline, or supplied with our UFTC Full Bore Flow-Through cells, see picture.

Benefits

- Very easy to install
- Density measurement, independent of medium type
- Fully inline, zero intrusion
- Very insensitive to gas bubbles
- Safe and durable probe system

At last a new and extremely reliable technology is available for the heavy industry to measure slurry and suspension density, inline, and with a minimum of installation and maintenance effort. This means that inline slurry monitoring is now feasible, without drawbacks of other inline density measurement methods, like nuclear and microwave systems.

The abrasive and corrosion resistant sensor material, standard made of PEEK, well protects the internal elements, which take care of transmitting and receiving of a broad spectrum of ultrasonic sound waves. Through the interaction of the sound between the contact surface and the fluid to be measured, the Model 9690 derives a complete image of the slurry density, without the need for the sound to pass through the fluid.

From the imaged spectra, the system derives the density of your slurry, regardless of composition, particle size and other properties of the particles.

Applications

- Non nuclear
- Density measurement

FeCl2  H2SO4  HCL  COD  FeSO4  Slurries

Density

TMAH

Model 9690

Hybrid Sensor Technology

Slurry Density Meter

The Density Meter For The Future
Selection of equipment

Pipe line installation
- Model 9690 Inline Process Analyzer
- Wafer UWC or UFTW or UFTC (spool)
- UMCS probe
- Density liquid settings

Tank installation
- Rhosonics Model 9690 In-line Process Analyzer
- UDP - tank probe for top down mounting
- Or “welolet” for side mounting
- Density liquid settings

Specifications reading

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>500 - 2500 g/l</td>
<td>5 g/l</td>
</tr>
<tr>
<td>Temperature</td>
<td>-10 to 110 °C</td>
<td>*</td>
</tr>
</tbody>
</table>

*An accurate temperature reading is not required in most density applications. Please inform your needs at our sales department.

Benefits

Rhosonics has developed and validated this application for already many years.

Major benefits are:
- No nuclear sources
- No legislations and high administration costs
- No licensing
- Very easy to install
- Density (SG) measurement, independent of medium type
- Fully inline, zero intrusion
- Maintenance free
- Safe and durable probe system
- Field proved technology

Dredging

UFTW - 1” to 3”

UWC - large diameter

UFTC - Spool
Our products

In-line concentration analysers for
- Water based solutions
- Concentrated chemicals & solutions
- Electrolytes (metal & acid in solution)
- Waste water COD applications
- Slurry density analysis
- Clarity & solids analyzers

Special fluid characterisation analysers
- Emulsion settling rate & concentration profile analysers
- Solids settling rate analysers
- Brewery analysers (º Plato, etc.)

The Solution Specialist
Rhosonics Analytical is The Solution Specialist for the design, production and supply of ultrasonic in-line process analyzers for liquids and slurries in any industry world wide.

Contact distributor

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