

Refractometers

Refractometers are commonly used to determine the concentration of a dissolved solids by making an optical measurement of a solution's refractive index. This measurement has been an important element in the processing industries like the chemical, pulp and paper, food and beverage, sugar and sweeteners industries for more than a century.

Digital technology utilizing solid state optics, CCD-camera and other elements common in camcorders, offers an accurate and maintenance-free way to measure concentrations in thousands of different process applications. Examples of output signals are:

- Concentration (% by weight)
- Liquid Density (% solids)
- Refractive Index (R.I)
- Brix

Thousands of users represent a variety of manufacturing operations. An aerospace client measures and controls a polyalkaline glycol quenching solution, a table syrup company cuts the production costs by implementing the in-control in the syrup line and a chemicals' and polymers' department of a chemical producer measures the finished fiber solutions. The performance of all types of refining, manufacturing and quality control operations can be dramatically improved with this technology.

