RFA V1 in food & beverage industries

Our refractometer has many applications in different sectors, however, the most demanded industry is the food and beverage industries. Our refractometer uses those industries in the production or/and the quality control of the final product. And ours is very useful because:

- Simple to measure, simple to clean
- Fast measuring of the refractive index or Brix scale
- Automatized
- Technology 4.0
- Highly efficient
- Software customized

The RFA V1 is designed to satisfy the industries' needs who work with fluids and or semitransparent materials. One of the biggest industries that work with those materials is the Food and beverage industries that need to test the samples, mostly a mixture of sugar and water. Our refractometer is very useful in that area.

Automatized System of measuring

The RFA V1 uses an automized system to measure the properties of the sample. The user only needs to put the samples in a container beneath the lenses of the refractometer. Then, it turns on the refractometer, and the results will be shown in the screen-computer or in any other dispositive that is connected to, or with a USB cable. There is an eyepiece requiring an operator determination or manual adjustment.

Temperature Correction

The RFA V1 works with room temperature, there is no need to heat it.

High Accuracy

Laser @632nm, 0.2mW

Measuring time: 2 seg

Step Motor with 50 microns per step with the encoder

Maximum travel of the screw: 12mm

Refractive index Range: 1.2 a 1.6 RIU

Quality Refractometer

Our refractometer RFA V1 has high-quality materials in their category. Excellent quality lenses and with a meticulous assembly of Optic Industries.

Easy to clean

It is easy to clean; you only need to clean your container where the sample goes. To clean the lenses, a specialist from our team will go to your place and maintain the refractometer.

Low cost

The traditional method for measuring the refractive index or Brixes was the ABBE refractometers.

It takes some time to the operator calibrate it and then measure, with some error percentage of the human eye. And a replacement of a prism of an Abbe refractometer is more expensive than the lenses we use.

RFA V1 Customizable Software

The operator can customize the software of their refractometer depending on the needs of the industry.

You can decide which scale you want to measure (refractive index or/and Brix scale).

You can also decide if you want to administrate the refractometer measurements during the day, week, month, or year. And if some sample goes over the limits established by the quality politics, we can send a warning immediately to the boss or the people in charge in that area.