Measures concentration of aqueous solution simply!

Palette Digital Refractometer
PR-32

New product!   Cat.No.3403

- Soluble solid%
- Control of dilution ratio%
- Sugar content (Brix)%

PR-32

13.7

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START/OFF   ZERO   REFRACTOMETER

Prism

Sample stage

LCD display

16.5

ZERO setting switch

START/OFF switch

The PR-32 is originally the refractometer developed to measure concentration of various solutions with application of refractive principle.

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Features

▌▌▌ Excellent functions and response

Automatic concentration measurement with the optical sensor, automatic correction of temperature error with the built-in microprocessor, and other many devices realize remarkable operability.

▌▌▌ Highly reliable digital display

Large-sized LCD shows a concentration of measurement result in digits, which are easily and quickly readable.

▌▌▌ Anticorrosive sample stage

The sample stage that is made of stainless steel for dealing with many kinds of solution always keeps cleanness being free from corrosion.

Main applications

In the food and beverage industries

At orchard, fruit shop and beverage factories for measuring sugar content of fruit juice and soft drinks.

In the industrial fields

Control of dilution ratio(multiples in %)
When water soluble cutting oil, aqueous cleaning agent, surfactant, liquid medicine, liquid chemicals, etc., are watered down for use, their dilution ratios(multiples in %) can be managed by the PR-32 digital refractometer.

Specifications

Cat. No.	3403
Measuring range	Brix 0.0 to 32.0%
Minimum resolution	Brix 0.1%
Measuring accuracy	Brix ±0.2%
Measuring temperature	5 to 40°C
Measuring time	2 seconds approx.
Sample quantity	0.1ml or more
Zero setting method	By distilled water and ZERO setting switch
Power supply	006P battery(9V)
Dimensions and Weight	17(W)×9(D)×4(H)cm,300g

*Specifications and design of outer appearance are subject to change without notice.

▌ MEASURING METHOD

1. Drip a liquid sample onto the prism surface.

2. Press the START/OFF switch.

3. After the arrow indicator blinks two times, the concentration of the sample is displayed in a Brix value(%).

In regard of displayed value

The PR-32 digital refractometer measures the refractive index of a liquid sample and displays the measurement result in a Brix value(%) that the refractive index is converted into a concentration(%) of sugar water.
Relation between refractive index and concentration(%) depends on the kind of liquid.
Therefore, the PR-32 digital refractometer requires to make a conversion table for between Brix(%) and concentration(%) preliminary to measurement.

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