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Getränkeanalytik

## Turbidimeter

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- Handy turbidimeter for the examination of juices,  
musts, wines and spirits -

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### Technical information and instructions for use

#### General information:

Turbidity is caused by particles, gels or being suspended in a liquid, dissolved colloiddally or kept emulsified in suspension. These can in beverages be finest crystals (mineral salts), plant particles (fruit pulp particles), microorganisms (yeasts), oil drops (distilled oils) or also soluble macromolecules (pasted starch, protein).

The before-mentioned substances are capable of absorbing and / or scattering incident light.

This scattered light can be quantitatively determined by means of the opto-electronic **turbidimeter**.

#### Measuring principle:

In the **turbidimeter**, a beverage sample is examined against infrared light. The turbidity causes here a light scatter, the intensity of which is measured by means of a detector at an angle of 90° referred to the direction of incidence and is a size for turbidity. This measuring principle is called nephelometric analysis; the turbidity is indicated as "NTU" units or numerically directly as "FNU".

This principle is especially suitable for measuring weak turbidity in coloured liquids.

#### Turbidimetry in beverages:

Since there are no standardised turbidimetry methods for beverages, a comparison of values gained with different devices in different plants is impossible.

The **turbidimeter** is however reasonable, practical and reliable to monitor in one and the same plant process steps (separation, filtration, fining, metered addition of yeast) qualitatively according to an own standardised method. For this purpose, samples with known turbidity assessed by other means are measured, comparing the measured results with those of unknown samples.

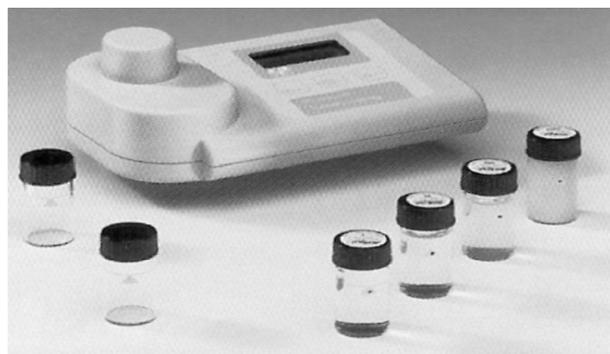
As to details for calibration and error sources, please refer to the operating instructions.

#### Extent of supply:

Box kit consisting of turbidimeter, 4 turbidity standards (1,10,100,1000NTU), 2 empty bulbs, 9V-compound battery

#### Technical data of the turbidimeter:

Dimensions:	19x11x5,5 cm
Weight:	400g
dissolution (4 measuring ranges):	0,2-2NTU; 0,1NTU 2-20NTU; 0,1NTU 20-200NTU; 1NTU 200-2000NTU; 1NTU



The complete information in this leaflet represents our current experiences and knowledge.

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