



Turbidity meter PCE-TUM 50



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**Turbidity meter for drinking and waste water as well as food / Colored graphic display /
Measurement of NTU, EBC, ASBC / According to ISO 7027 (90°) / AC Mains operation (220V
AC power adapter) / USB interface**

The turbidity meter PCE-TUM 50 is a portable device for measuring turbidity according to ISO 7027. This allows the user to quickly and easily determine important water parameters with the turbidity meter and to check the quality of drinking water and waste water. The calibration of the turbidity meter PCE-TUM 50 is very easy due to the calibration standards supplied. The calibration can be carried out with 7 preset points. In addition, user-specific calibration points can also be set. The turbidity meter is capable of measuring turbidity of liquids up to 2000 NTU.

Furthermore, the measuring unit can be switched to EBC (European Brewery Convention) or ASBC (American Society of Brewing Chemists). The measured values are displayed on the large color display. The turbidity meter is mainly used in the laboratory and is therefore operated with a plug-in power supply. Via the rear USB interface, the turbidity meter can be connected to a computer and the memory can be cleared.

What is the EBC or European Brewery Convention? (See above in the picture gallery) As EBC, the color or the color intensity of beer and wort is described in Europe. This set value describes how much light is absorbed by beer with a certain original wort content. The turbidity meter can determine this value and thus helps in judging the type of beer.

- High precision
- 3 measuring units
- Turbidity calibration up to 7 points
- Color display
- Easy handling
- USB interface

Specifications:

Measurement method	ISO 7027 (90°)
Measuring ranges	0 ... 2000 NTU 0 ... 500 EBC 0 ... 9999 ASBC
Resolution	< 100 NTU: 0.01 < 999 NTU: 0.1 < 2000 NTU: 1
Accuracy	< 500 NTU: $\pm 2\%$ of v. Mw. < 2000 NTU: $\pm 3\%$ of Mw.
Calibration	< 0.02 NTU 10 NTU 200 NTU 500 NTU 1000 NTU

	1500 NTU
	2000 NTU
	Or user-specific
Light source	850 nm IR LED
Scattered light influence	< 0.02 NTU
Dimensions of cuvettes	60 x 25 mm / 2.4 x 1 in
Automatic shutdown	2 hours after the device was not used
Storage	200 memory slots
Interface	USB
Power supply	220 VAC/50 Hz, 12 VDC
Current consumption	About 300-mA
Operating temperature	0 ... 60°C / 32 ... 140°F
Dimensions	250 x 177 x 96 mm / 9.8 x 7 x 3.8 in
Weight	About 1.2 kg / 2.6 lbs

Delivery Scope

- 1 x Turbidity meter PCE-TUM 50
- 1 x Cuvette with lid
- 4 x Calibration cuvettes turbidity
- 1 x AC Power adapter
- 1 x Cleaning cloth
- 1 x User manual