

Turbidity Meter PCE-TUM 20



PCE-TUM 20 Turbidity Meter

0 ... 1000 NTU turbidity measuring range / Infrared LED light source / Calibration references included

PCE-TUM 20 is a portable handheld turbidity meter or turbidimeter for water quality analysis. This turbidity measuring device is equipped with a large LCD screen and user-friendly keyboard. The turbidity meter features two automatically switching measuring ranges between 0 ... 50 NTU and 50 ... 1000 NTU for increased accuracy. Using the included calibration references of 0 NTU and 100 NTU, the meter can be adjusted at any time. (Note: NTU stands for Nephelometric Turbidity Unit.)

Inside the meter, there is an infrared LED light source with a wavelength of 850 nm. A photodiode positioned in a 90° angle to the measuring ray absorbs the light reflected by the particles in the dissolution. Diffused light or Nephelometric measuring methods are used for the lower measuring range. For the higher measuring range, an additional photodiode is positioned at the opposite side; therefore, measurement is performed via the transmitted light method.

- ▶ Portable
- ▶ High accuracy
- ▶ Large LCD screen
- ▶ User-friendly keyboard
- ▶ Displays turbidity measurements in NTU

Subject to change

Specifications

Measuringrange	0.00to 50.0 NTU and 50 to 1000 NTU
Resolution	0.01and 1 NTU
Accuracy	±5 % from measuring range or ± 0.5 NTU
Lightsource	LED,infrared at 850 nm
Lifetime	Almostunlimited
Lightdetector	Photodiode
Measurementtime	<10 sec.
Power supply	6x 1.5 V AAA batteries
Operatingconditions	< 50 °C / 122 °F, < 85 % RH
Dimensions	Approx. 155 x 76 x 62 mm / 6.1 x 3.0 x 2.4" (H x W x D)
Weight	Approx. 320 g / 0.71 lb

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