



▶ PORTABLE TURBIDITY METERS

Portable TN turbidimeters generate fast and accurate analyses between 0 and 1000 NTU. They are designed to be used both in the laboratory and outdoors (protection class IP67), such as drinking water analysis, soft drink analysis, environmental controls, etc. They have a large color TFT screen, with support for graphic operation guides and text, and a bar that indicates the progress of the measurement.

Turbidity measurement is performed by the nephelometric method of measuring light scattered at 90°, which provides greater accuracy at low measurement values. The TN meters follow the ISO 7027/ DIN EN 27027 standard, with an infrared light source of 860 nm wavelength (models TN400 and TN500i); or the U.S. EPA180.1 standard with a tungsten lamp emitting a white light source (model TN500).

The 500 models have more advanced features such as data storage (up to 200 data sets) and computer transmission and analysis (Windows OS), rechargeable battery, language settings (English, Spanish) or TruRead measurement mode. It is possible to configure the reading mode by setting the TruRead mode, which increases the reading accuracy by minimizing the impact of factors external and internal to the sample such as sample uniformity and precipitates, bubbles, direct light disturbances, spots or optical errors in the sample vials, etc. It is especially suitable for samples that vary rapidly in value. It is possible to select the number of continuous readings we want to register, and we can see on the screen the result of each measurement, maximum and minimum measurement, as well as the average result. We can also transfer this data to the computer thanks to its storage capacity of 200 data groups and the USB output.

Generate fast and accurate turbidity analysis

Large TFT display color with graphic and text operation guide





▶ **PORTABLE TURBIDITY METERS - Technical features**

Code	KZF001	KZF004	KZF005
Model	TN400	TN500	TN500i
Measuring method	90° scattering measurement		
Standards	ISO 7027	U.S. EPA 180.1	ISO 7027
Light source	860 nm LED	Tungsten lamp	860 nm LED
Detector	Yeslice photodiode		
Measuring range	0 – 1000 NTU		
Accuracy	± 2% of reading + stray light		
Repeatability	≤ ± 1 % / 0.02 NTU		
Calibration points	0 NTU, 20 NTU, 100 NTU, 400 NTU, 800 NTU		
Measuring mode	Normal	Normal / TruRead	
Parameter configuration	No	TruRead: 5/10/15/20 reading	
Languages	English	English / Spanish	English / Spanish
Data storage	No	200 data sets	
Data output	No	USB	
Sample vials	3	6	6
Vials volume	18 mL		
Power supply	AA x 4	3.7V Lithium rechargeable - AAx4	

▶ **PORTABLE TURBIDITY METERS - Complete kit**



Complete kit

The kits are supplied with a carrying case, instructions for use, sample analysis vials, silicone oil, batteries, cleaning cloth, and with 4/5 standard solutions of AMCO high molecular weight polymers (0.02, 20.0, 100, 400 and 800 NTU), which are U.S. EPA certified for non-toxicity, stable, accurate and easy to use.

▶ **PORTABLE TURBIDITY METERS - Presentation of standard solutions and placement on the equipment**



Standard solutions

It provides 4 types of easy-to-use standard solutions of Reagecon high molecular weight polymer (0.02 NTU, 20.0 NTU, 100 NTU, 800 NTU), U.S. EPA certified, non-toxic, and easy to use, which has extensive advantages over standard solutions.



Placement of standard solutions

Open the lid of the instrument to insert the measuring bottles into the instrument.