

# Turbidity meter AL450T-IR

with infra-red light source (EN ISO 7027)



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## Highlights

- Meets EN ISO 7027
- Automatic overall range adjustment with Standard-Set T-Cal
- Auto-ranging
- High accuracy
- Laboratory and mobile use
- RS 232 interface
- Storage for up to 1000 data-sets
- Real-time clock
- Waterproof sample chamber and housing

Turbidity is measured according to EN ISO 7027 by nephelometric means (90° scattered light). The infra-red light-source permits measurement of coloured and colour-free samples.

The automatic measurement range detection facility (Autorange) enables direct turbidity measurement from 0.01 to 1100 NTU with an accuracy of  $\pm 2\%$  up to 500 NTU and  $\pm 3\%$  thereafter.

A large graphic display, a choice of several different languages and user-friendly operating instructions make the device extremely easy to use.

Software updates (for example: languages) can be downloaded free of charge from our website [www.aqualytic.de](http://www.aqualytic.de)

## Technical data

<b>Principle</b>	nephelometric (90° scattered light)
<b>Light source</b>	IR-LED (860 nm)
<b>Keypad</b>	conditional acid and solvent resistant; membrane switch keypad with audible feedback
<b>Auto – Off</b>	automatic switch off approx. 20 minutes after last key press
<b>Display</b>	Graphic-Display
<b>Update</b>	Software update via Internet
<b>Clock</b>	real time clock
<b>Memory capacity</b>	1000 data sets with date, time and registration number
<b>Sample volume</b>	approx. 12 ml
<b>Range</b>	0.01 – 1100 NTU (Auto range)
<b>Resolution (NTU)</b>	0.01 from 0.01 - 9.99 0.1 NTU from 10.0 - 99.9 1 NTU from 100 - 1100
<b>Accuracy (NTU)</b>	± 2 % of reading or 0.01 (0 - 500) ± 5 % of reading (500 - 1100)
<b>Ambient conditions</b>	temperature: 5-40°C at 30-90% relative humidity (non condensing)
<b>Interface</b>	RS232 for printer and PC-connection; 9-pin D-sub-mail connector; data format ASCII
<b>Power supply</b>	7 NiCd rechargeable batteries (Type AA/Mignon with 1100mAh); wall plug mains adapter (Input: 100-230V, 50-60Hz; Output: 15V;530mA) and Lithium battery (CR 2032, 3V) for data storage and real time clock.
<b>Weight (instrument)</b>	approx. 1000 g including batteries and power pack
<b>Dimensions (L x W x H)</b>	approx. 265 x 195 x 70 mm
<b>Specification</b>	meets ISO 7027

## CE-Conformity

## Delivery Content

The AL450T-IR is supplied complete and ready-to-use incl. 1 Set Turbidity Standards T-CAL, 7 rechargeable batteries, mains charger, 100-240 V, PC connection cable, 4 x 24 mm vials, instruction manual and warranty sheet in a plastic carrying case with water resistance foam.

**Order code: 4194000**

## Accessories

Set of 12 sample vials with black lid, height 55 mm, ø 24 mm	197655
Cleaning cloth for vials	197635
Rubber seal cap, black for interface and power plug-in	19801716
Sample chamber lid, black	19801119
Mains charger, 100 - 240 V, 50 - 60 Hz, with international adapters	193010
Universal adapter for sockets, international	192065
Connection cable connection to PC, serial 9-pins	198198
Akku AA Mignon, 1100 mAh (7 pc.)	1950020
Lithium battery	1950017
Formazin Stock Solution (4000 NTU), 100 ml	1941 41
Formazin Stock Solution (4000 NTU), 250 ml	194142
Set Turbidity Standards T-CAL (< 0.1, 20, 200, 800 NTU)	4194150
Paper printer DPN 2335	198075
Roll of paper for printer DPN 2335	198062
Pack of accus for printer DPN 2335	198066
Ribbon cartridge for printer DPN 2335	198067

