



AQUANAL®-plus Spectro Turbidity

Turbidity can be defined as a decrease in the transparency of a solution due to the presence of suspended and some dissolved substances, which causes incident light to be scattered, reflected, and attenuated rather than transmitted in straight lines; the higher the intensity of the scattered or attenuated light, the higher the value of turbidity. Simply stated, turbidity is the measure of relative sample clarity. Turbidity can be expressed in nephelometric turbidity units (NTU).



Bild AQUANAL®-plus Spectro Trübung

The AQUANAL®-plus Spectro turbidity is designed as a compact, easy to use instrument to determine turbidity fast and accurate. A light emitting diode (LED) is used as a light source with a photo detector positioned to detect light scattered by a sample sitting at an angle of 90°C to the incident beam. The LED is characterised by maximum long-term stability and monochromatic light emission with minimum power input. The sample chamber (the most critical part of any photometer) is fully sealed, so no water can penetrate into the electronic components. The size of the sample chamber ensures easy cleaning of the light entry surfaces. Battery operation makes the unit suitable for both mobile use and laboratory applications.

Cat. No. Product

70034*	AQUANAL®-plus Spectro Turbidity
70036	Secondary turbidity standards: 1 and 10 NTU, 2 pcs
70037	Secondary turbidity standards: 100 and 1000 NTU, 2 pcs
70110	Secondary turbidity standards: 1, 10, 100 and 1000 NTU, 4 pcs
70044	Sample chamber lid for Spectro Turbidity

Table 1 Reagents

* The AQUANAL®-plus Spectro turbidity is supplied as a fully functional unit complete with accessories and 4 turbidity calibration standards (1, 10, 100 and 1000 NTU) in a handy case.

Measurement cycle	approx. 9 seconds
Display	LCD-display
Optics	temperature-compensated LED and photo sensor amplifier in water protected sample chamber, infra-red light, $\lambda = 875 \text{ nm}$
Sample Chamber	Waterproof
Measuring range	0,1 – 2000 TEF = NTU = NFU
Keypad	3 key polycarbonate film, splash proof
Power supply	9 V power pack battery providing 40 hours operation – equivalent to approx. 600 measurement cycles with a cycle of 4 minutes
Auto-OFF	automatic switch-off approx. 5 minutes after last key press
Housing	ABS
Dimensions	190 x 110 x 55 mm (W x D x H)
Weight	approx. 0,4 kg (basic unit)
Environmental conditions	Temperature: 0-40°C Rel. humidity: 30-90%
CE-conformity	DIN EN 50081-1. VDE 0839 part 81-1 : 1993-03 DIN EN 50082-2. VDE 0839 part 82-2 : 1996-02

Table 2 Technical Data

Contacts

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