



## 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 at 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. The AQUANAL®-plus Spectro turbidity may be used as test equipment with software-based calibration adjustment facilities. 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
96867	Primary turbidity standard: 0.1 NTU, traceable to NIST
88457	Primary turbidity standard: 0.8 NTU, traceable to NIST
88487	Primary turbidity standard: 1.8 NTU, traceable to NIST
83083	Primary turbidity standard: 18 NTU, traceable to NIST
90258	Primary turbidity standard: 80 NTU, traceable to NIST
85721	Primary turbidity standard: 180 NTU, traceable to NIST
88899	Primary turbidity standard: 800 NTU, traceable to NIST
92019	Primary turbidity standard: 1800 NTU, traceable to NIST

**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.

<b>Measurement cycle</b>	approx. 9 seconds
<b>Display</b>	LCD-display
<b>Optics</b>	temperature-compensated LED and photo sensor amplifier in water protected sample chamber, infrared light
<b>Sample Chamber</b>	Waterproof
<b>Measuring range</b>	0,1 – 2000 TE/F = NTU = NFU
<b>Keypad</b>	3 key polycarbonate film, splash proof
<b>Power supply</b>	9 V power pack battery providing 40 hours operation – equivalent to approx. 600 measurement cycles with a cycle of 4 minutes
<b>Auto-OFF</b>	automatic switch-off approx. 5 minutes after last key press
<b>Housing</b>	ABS
<b>Dimensions</b>	190 x 110 x 55 mm (W x D x H)
<b>Weight</b>	approx. 0,4 kg (basic unit)
<b>Environmental conditions</b>	Temperature: 0-40°C Rel. humidity: 30-90%
<b>CE-conformity</b>	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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