



Turb PLUS 2000 Turbidity Analyzer

CONTINUOUS MONITORING AND PROCESS CONTROL IN DRINKING WATER



a xylem brand



Turbidity Measurement

Continuously and Accurately Monitored

- High accuracy of $\pm 2\%$ of reading or ± 0.02 NTU below 40 NTU
- Ultrasonic Cleaning System
- ISO and EPA compliant
- Resolution down to 0.0001 NTU
- 20 mA Current and RS 485 (Modbus RTU)
- Can be integrated into existing IQ SENSOR NET via MIQ/IC2



Drinking water

For many drinking water treatment plants, turbidity is the most important parameter. In several regions, plants have to measure turbidity after every treatment step and they have to meet a limit of lower than 1 NTU at the plant outlet.



Sedimentation

Sedimentation including upstream precipitation or flocculation is not only used to remove coarse particles. It also reduces turbidity to protect downstream filters from too fast coating. Therefore, turbidity should be monitored after the sedimentation.



Filtration

Turbidity can be measured to avoid too high loads reaching the filter. Otherwise filters might be coated too fast and need to be flushed more often.



Disinfection

Low turbidity values are essential for efficient disinfection. Otherwise, disinfectants or UV light might not reach the microorganisms, as they are protected by biofilms or particles.



Accurate and reliable

Measuring using ISO and EPA compliant methods, provides reliable and highly accurate data to ensure high drinking water quality.

Low maintenance

The ultrasonic cleaning reduces manual maintenance. Calibration is only needed every three months (according to EPA guidelines), which saves costs and time.

Bubble trap option

The set option with an external trap avoids false readings caused by air bubbles. Existing instruments can be retrofitted with the bubble trap as well (600041).

ISO and EPA compliant

The Turb PLUS 2000 is compliant to EPA 180.1 (white light) and ISO DIN EN 7027 (infrared light), which makes it suitable for drinking water permit reporting worldwide.

Technical Data

Measurement Range	Factory setting: 0 ... 100 NTU; optional measuring ranges 0 ... 10 and 0 ... 1000 NTU (loaded on USB)
Resolution	Down to 0.0001 NTU
Accuracy	±2 % of reading or ±0.02 NTU below 40 NTU whichever is greater (0-100 and 0-1000 ranges) ±5 % of reading above 40 NTU (0-100 and 0-1000 NTU ranges) ±2 % of reading or ±0.02 NTU (0-10 NTU range)
Sample Temperature	1 °C ... 50 °C (34 °F ... 122 °F)
Relays	Two Programmable, 120-240 V AC 2A Form C Relay
Analog Output	One powered 4-20 mA, 1000 W drive
Digital Output	Bi-directional RS-485, Modbus RTU
Warranty	2 years



D7.06

Process Control

The two relays can be used to send pre-warning and alarm in case of exceeding turbidity values. Digital Modbus RTU and analog mA signals are available at the same time.

Ordering information

Model	Description	Order No.
Turb PLUS 2020	Turbidity analyzer with white light (US EPA 180.1)	600026
Turb PLUS 2120	Turbidity analyzer with infrared light (ISO EN DIN 7027)	600036
Turb PLUS 2120 Set	Turb PLUS 2120 including external bubble trap	600037
BC-Turb/DW	External bubble trap	600041
Kal Kit Turb/DW	Calibration standard set (0.02, 10, 1000 NTU, cleaning tissues, designation rings)	600052
Kal Kit Turb PLUS 2000	Calibration standard set (0.02, 10, 100 NTU, cleaning tissues, designation rings)	600054
Kal Kit Turb 2110/DW	Calibration standard set (0.02, 1, 10 NTU, cleaning tissues, designation rings)	600056

For accessories and more information see brochure "Product Details" and visit: www.WTW.com/en/plus2000



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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