

Palintest

Turbidity Expert Feature Sheet



What makes Turbidity Expert the best in class?

There is no secret formula- it is simply a matter of meticulous attention to detail.



1. The instrument has been designed to achieve precision up to ± 0.01 NTU, which makes it suitable for measuring low levels of turbidity in drinking water accurately.
2. There is ambient temperature & LED self-heating compensation to deliver consistent, accurate results, no matter the environmental conditions.
3. The product is designed as a portable instrument. It feels light yet rugged. Wherever your work takes you— simply grab and go!
4. The stray light in the instrument has been tested to limit at 0.02 NTU, that is achieved from the patented design of the optics featured by Turbidity Expert.
5. With full colour touch screen IPS display of 800 x 480px it offers superior visibility, wide viewing angles, providing comfortable user experience. Because we don't just stop at precision— we make it look elegant.
6. The same instrument allows users to measure up to 1000 NTU on the top end, a range less rare in industrial and effluent discharge applications.
7. Embrace sustainability with its rechargeable lithium-ion cell that powers 2500 tests in one charge, even with full backlight & active Wi-Fi. Say goodbye to buying those AA batteries.
8. Let's face it—dust and contamination are inevitable challenges for any optical system. That's why we developed a patented, field-replaceable optic. In just minutes, you can swap the optics yourself, eliminating the need to return for repairs. Yes we have taken the phrase “look through a new lens” literally!
9. Inside every kit, you'll find three user-friendly calibration standards, commonly called as SDVB. Non-hazardous and reliable, they make on-site calibration as safe as it is precise.
10. Engineered to perfection, the Illumination Chamber is crafted from Polypropylene and precisely shaped through hundreds of iterations to minimize and unify stray light. The result? Consistent, clear readings from one test to the next.

11. By performing the 1NTU verification standard, you ensure your instrument's low-range measurements are spot-on, guaranteeing repeatability within ± 0.01 NTU every time.

12. Each set of standards comes with a serial number certificate, down to the second decimal point and ensuring the shelf life.

13. At the heart of every accurate measurement is a flawless baseline. Achieving zero calibration means your instrument starts with absolute precision. Every instrument is factory-calibrated, with certificates available for you on Palintest Connect.

14. Accommodates standard 25 mm diameter sample vials - easy to handle, insert, and remove. Put a few drops of silicone oil before test and eliminate the impact of the slightest scratches, ensuring pristine accuracy every measurement.

15. The cap covering optics stays firmly in place, at all angles, thanks to a reliable hinge mechanism that prevents it from flapping around. Got wear and tear, it simply pops out for a swap.

16. Accidentally drop it in water? No problem. The instrument is IP67 certified, meaning it can handle being submerged up to 1 meter deep for 30 minutes—even with the cap open.


17. With an IK08 enclosure rating, this unit chuckles in the face of bumps and drops. It has been tested for drops and impacts. Now enjoy the long-lasting protection and performance in demanding environments.

18. Choose between the two variants: The ISO 7027 model, features an 860nm infrared light source, while the EPA 180.1 variant, comes with a white LED. The difference lies in the wavelength, but the outcome is the same: complete peace of mind, knowing you're always in compliance.

19. With a sleek, modern look and an intuitive user interface, this unit provides on-screen instructions to guide user through the steps. Save training time and get consistency across your team.

20. Upload all your results seamlessly to the cloud via Wi-Fi, ensuring secure and accessible data anytime. The instrument itself stores up to 5,000 results, with the most recent 1,000 tests having detailed data tags. Data at your fingertips, whenever you need it.

Experience firsthand the precision, reliability, and ease of our turbidity instrument with a personalized demo.

 **The replaceable optics is a game changer.**

Northumbrian Water,
a large UK based water utility,
<https://www.nwl.co.uk/>

See for yourself how every feature, meticulously engineered, brings you results you can trust!