

# Palintest

## Turbidity Expert

Delivering clarity through  
accuracy, simplicity  
and connectivity





## What is Turbidity?

Turbidity is a measure of how clear or cloudy water appears due to the presence of suspended particles like dirt, algae, and other microscopic contaminants. Higher turbidity often signals poor water quality.

Turbidity is a critical parameter for water utilities, environmental monitoring and many industrial applications as it ensures water safety by meeting health standards. Consistent turbidity monitoring helps prevent contamination and ensures high-quality water.

## Ideal for use in



**Drinking Water**



**Effluent Monitoring**



**Environmental Analysis**



**Humanitarian Water**



**Food & Beverage**



**Aquaculture**



**Industrial Processes**



**Recreational Water**

## Why choose Turbidity Expert?

### Key Benefits



**Intuitive Interface**  
Graphical touch screen  
Simplifies testing  
Reduces user errors



**Rugged Durable Construction**  
Waterproof (IP67)  
Dustproof  
Protected against impact (IK08)



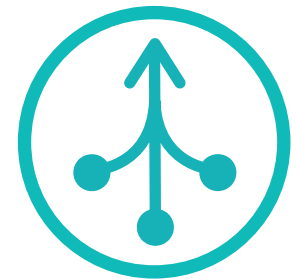
**Innovative Optics**  
Reduce downtime & the need to return for cleaning & calibration



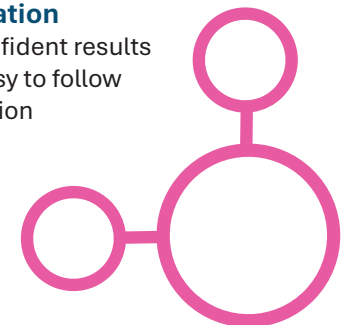
**Reliable Performance**  
Precise to 0.01 NTU  
Verify calibration with 1NTU check standards



**Wi-Fi & Cloud Connectivity**  
Real-time results  
Timely decisions  
Cloud data management



**Simplified Calibration**  
Get confident results with easy to follow calibration



## Replaceable Field Optics

Sampling turbidity in the field can be a messy task. While precision optics are effective, they can disrupt operations if they become dirty.

We listened, understood, and developed field-replaceable optics, reducing the need to return the instrument for cleaning and calibration.

The replacing of the optic is a simple process, using the supplied screw driver, the changeover takes less than 5 mins.

### Turbidity Expert



**Replaceable Optics Kit PT128**



## Quick Reference: Kits and Part Codes



### Turbidity Expert Kit LTH090

Supplied in a protective, rugged hard case Instrument, 4 SDVB standards, sample test tubes, silicone oil, dilution tube, cleaning cloth, USB-C charging cable, quick start guide.



### Turbidity Expert & Lumiso Chlorine Combined Kit LUM7051

Portable analysis of chlorine and turbidity with a single field kit. Supplied in a hard case. Turbidity Expert, Lumiso chlorine, 4 SDVB standards, sample test tubes, silicone oil, dilution tube, cleaning cloth, USB-C charging cable, 10ml syringe, reusable reagent box, crush rods, quick start guide.



### Turbidity Expert Combined Kit (Without Lumiso Chlorine) LUM7051WLC

Turbidity Expert, Lumiso chlorine, 4 SDVB standards, sample test tubes, silicone oil, dilution tube, cleaning cloth, USB-C charging cable, 10ml syringe, reusable reagent box, crush rods, quick start guide.

## Quick Reference: Accessories

Description	Code
Replaceable Optics Kit	PT128
SDVB Calibration Standards Kit	LTC090
Crush Rods, Pack of 10	PT502
Syringe 10 mL	PT369
Silicone Oil, 10 mL	PT120
USB C Charging Cable	PT749
Dilution Tube	PT512
Polishing Cloth	PT399
Sample Tube Brush	PT663
Glass Test Tubes, Pack of 5	PT555

## Technical Specification

<b>Range</b>	0.01-1000 NTU
<b>Repeatability</b>	+/- 1% (or +/-0.01 NTU) whichever is greater
<b>Approvals</b>	ISO7027 compliant- Light Source featuring 860 nm wavelength LED
<b>Measuring System</b>	Nephelometry
<b>Operating Range</b>	Ambient Range 0°C - 40°C
<b>Reading Mode</b>	Normal (Push to Read), Signal Averaging, Continuous
<b>Response Time</b>	<7 seconds in Normal reading mode
<b>Display</b>	800 x 480px full colour IPS display
<b>User Interface</b>	Touchscreen (usable with wet and gloved hands)
<b>Ingress Protection</b>	Enclosure Rating IP67 Impact Resistance Rating
<b>IP67 Waterproof rating</b>	IP67 Impact Resistance Rating
<b>Connectivity</b>	Palintest Connect enabled Wi-Fi, USB-C for data transfer
<b>Data Storage</b>	5,000 test results
<b>Size (W x L x H) &amp; Weight</b>	195 mm x 166 mm x 72 mm, 650g
<b>Battery &amp; Power Supply</b>	Rechargeable Li-ion Battery (2500 tests on full charge) USB-C powered/ Rechargeable



## Contact us

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