



A unique turbidity analyser, using patent pending technology to provide ISO7027, EPA180.1, ASBC and ASTM equivalency results in a single measurement, allowing you to confidently correlate results across all field, process and lab analysers.

Modern Look and Feel

A modern user friendly Windows interface displayed on an 8 inch touch screen, all housed in an analyser with a small footprint.

Each user can have the screens shown in their own language.

Easy reporting and connectivity

Store millions of measurements on the analyser. No more hand written reports – no transcription errors or misplaced readings. Create your report directly in PDF or Excel compatible CSV.

With USB and Wi-Fi connections you can print directly from the analyser and store your data on a USB device or your server.

Scatter and Transmission Spectra

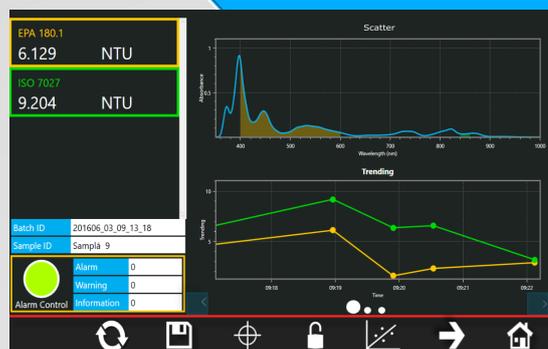
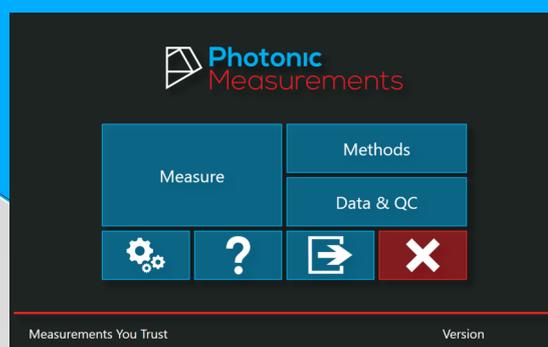
NTU values vary from one analyser to another because Scatter and Transmission measurements are affected by both the colour of the sample and the particulate size. The Lorentz uses the full spectra of the transmission and scattering measurements to build a better understanding of your sample.

Multi-Standard

No longer suffer from the fact that lab and process turbidity analysers give different results, caused by measuring at different light frequencies. The Lorentz analyser can be set to simulate all these measurements ensuring a better correlation and confidence in the final result.

The Lorentz turbidity analyser can provide your measurements in your regulatory format and correlate to other measurement techniques, including ISO7027, EPA180.1, ASBC and ASTM.

Operating Mode	Transmittance (%), absorbance, scattering and trending
Light Source	Solid State
Wavelength Range	390 - 900 nm
Wavelength Accuracy	0.2nm
Wavelength Reproducibility	0.0nm
Wavelength Resolution	0.4nm
Wavelength Selection	Automatic, based on method selection
Spectral Bandwidth	12nm
Scanning speed	Full spectral measurement <4s
Measuring Range	0.01 to 1000 NTU
Photometric Accuracy	5 mAbs at 0.0-05Abs
Stray Light	< 0.10%
Display	8 inch HD (1280 x 800) colour touch screen
Data Logger	> 10 million measurements
Method Storage	> 10,000 (custom and pre-loaded)
Sample Cell Compatibility	Rectangular: 1 inch and a 1 inch round cell option
Dimensions (W x H x D)	245mm x 267mm x 422mm
Weight	6kg
Operating Conditions	10 to 40 °C, max 80% relative humidity (non-condensing)
Storage Conditions	-25 to 60 °C, max 80% relative humidity (non-condensing)
Enclosure Rating	IP 20
Interfaces	USB type A (4 off), Wi-Fi, Ethernet optional
Warranty	2 years



Routine made simple

The Lorentz has been designed to make your everyday tasks as simple as possible. Jump straight in to your measurement with no warm up time, and perform your measurement in less than 5 seconds.

GLP – Good Lab Practice

Designed with GLP in mind, the analyser provides user access control; administrator, manager and operator levels; with timed auto logoff. Every action is recorded and timestamped in a robust database.

Levy-Jennings and Westgard rules can be applied to identify anomalies.

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