

HYDROTEST TURBIDITY HTTURB

Turbidity, or cloudiness, has often been considered a superb first line indicator of water quality. Turbidity may be caused by growth of phytoplankton.

Human activities that disturb land, such as construction, mining and agriculture, can lead to high sediment levels entering water bodies. Erosion rates contribute large amounts of turbidity to nearby waters, and industries such as quarrying, mining and coal recovery can generate very high levels of turbidity from colloidal rock particles. High turbidity levels can reduce the amount of light reaching lower depths, which can inhibit growth of submerged aquatic plants, reducing oxygen levels. In drinking water, the higher the turbidity level, the higher the risk that people may develop gastrointestinal diseases. Suspended solids interfere with water disinfection with chlorine because the particles act as shields for the virus and bacteria. Similarly, suspended solids can protect bacteria from UV sterilisation of water. The HTTURB IR turbidity meter offers fast, precise on-site testing using the industry standard nephelometric method (scattered light at an angle of 90°). The wide range makes this a multi-purpose instrument for a variety of possible applications and the IR light source ensures suitability for both coloured and colourless liquids. The unit comes complete with calibration standards and accessories, packaged in a hard shell carry case.

BENEFITS OF HTTURB

BENEFIT	FEATURE
Fast, precise on-site testing of turbidity	Compact and lightweight instrument with small footprint
Suited for testing a range of liquids, both coloured and colourless, without interference	Infrared light source
One instrument addresses multiple applications	Wide measurement range (0.01-1100 NTU)
Fully compatible with EN ISO 7027, suitable for reporting to regulatory authorities	Industry standard nephelometric testing method
The perfect instrument for testing turbidity even in challenging weather conditions	Splashproof membrane and LCD display



TECHNICAL SPECIFICATIONS

Measurement cycle	≈ 8 seconds
Display	Backlit LCD display
Optics	Temperature-compensated LED ($\lambda = 860\text{nm}$) and photosensor amplifier in waterproof sample chamber, IR light
Keypad	Splashproof membrane
Power supply	9V cell
Auto-off	Yes
Storage	Internal memory for 16 data sets
Range	0.01 – 1100 NTU
Resolution	0.01 - 9.99 NTU = 0.01 NTU 10.0 – 99.9 NTU = 0.1 NTU 100 – 1100 NTU = 1 NTU
Accuracy	$\pm 2.5\%$ of reading or ± 0.01 NTU (0 - 500 NTU), $\pm 5\%$ (500 – 1100 NTU)
Housing	ABS
Dimensions	190 x 110 x 55 mm (instrument only)
Weight	0.4 Kg (instrument only)
Environmental conditions	Temperature: 5 - 40°C Humidity: 30 – 90%
Approvals	CE conformity; EN ISO 7027

Order code – HTTURB

