TU5 Series Turbidimeters

The next standard in the evolution of turbidity

Only the TU5 Series Lab & Process Turbidimeters with 360° x 90° Detection $^{\rm m}$ deliver unprecedented confidence that a change in your reading is a change in your water.



Groundbreaking 360° x 90° Detection Technology

The TU5 Series employs a patented optical design that sees more of your sample than any other turbidimeter, delivering the best low level precision and sensitivity while minimizing variability from test to test.

Matching lab and online results

For the first time you will be able to remove the uncertainty of which measurement to trust, thanks to identical 360° x 90° Detection Technology in both instruments.

Everything about turbidity – faster

The TU5 Series dramatically reduces the time needed to get a turbidity measurement you can rely on, with 98% less online sample surface area to clean, sealed vials for calibration, and the elimination of the need for indexing and silicone oil in the lab. Not to mention, a smaller online sample volume means you will detect events almost immediately.

No surprises

Prognosys™ monitors your TU5 Series online instrument, proactively alerting you to maintenance needs before your measurement becomes questionable. And a Hach Service Agreement protects your investment and helps ensure that you stay in compliance and on budget.

Learn More





Technical Data*	
Light Source	Class 2 laser product, with embedded 650 nm (EPA 0.43 mW) or Class 1 laser product, with embedded 850 nm (ISO), max. 0.55 mW (complies with IEC/EN 60825-1 and to 21 CFR 1040.10 in accordance with Laser Notice No. 50)
Range	EPA: 0 - 700 NTU / FNU / TE/F / FTU 0 - 100 mg/L 0 - 175 EBC ISO: 0 - 1000 NTU / FNU / TE/F / FTU 0 - 100 mg/L 0 - 250 EBC
Accuracy	±2% or 0.01 NTU from 0 - 40 NTU ±10% of reading from 40 - 1000 NTU based on Formazin primary standard
Resolution	0.0001 NTU / FNU / TE/F / FTU / EBC
Repeatability	Better than 1% of reading or ±0.002 NTU (TU5300sc) or ±0.0006 NTU (TU5400sc) on Formazin at 25 °C (77 °F), whichever is greater
Stray Light	<10 mNTU
Units	NTU, FNU, TE/F, FTU, EBC
Signal Average Time	TU5300sc: 30 - 90 seconds TU5400sc: 1 - 90 seconds
Response Time	TU5300sc: T90 <45 seconds at 100 mL/min TU5400sc: T90 <30 seconds at 100 mL/min
Sample Temperature	2 - 60 °C (35 - 140 °F)
Sample Pressure	6 bar (87 psi) maximum, compared to air at sample temperature range from 2 - 40 °C (35.6 - 104 °F)
Sample Flow Rate	100 - 1000 mL/min; optimal flow rate: 200 - 500 mL/min
Operating Temperature Range	0 - 50 °C (32 - 122 °F)
Operating Humidity	Relative humidity: 5 - 95% at different temperatures, non-condensing
Storage Conditions	-40 - 60 °C (-40 - 140 °F)
Enclosure Rating	Electronic compartment IP55; all other functional units IP65 with process head/ACM attached to the TU5300sc/TU5400sc instrument
Certifications	CE compliant US FDA accession number: 1420493-000 EPA version, 1420492-000 ISO version Australian ACMA Marking
Dimensions (H x W x D)	249 x 268 x 190 mm (9.8 x 10.6 x 7.5 in.)
Weight	5.95 lbs. (2.7 kg); 11 lbs. (5.0 kg) with all accessories
*Subject to change without notice.	

Order Information

TU5300sc/TU5400sc Online Laser Turbidimeters

LXV445.99.10112 TU5300sc Low Range Laser Turbidimeter, EPA Version **LXV445.99.10212** TU5400sc Ultra-High Precision Low Range Laser Turbidimeter, **EPA Version**

LXV445.99.53112 TU5300sc with Flow Sensor, Automatic Cleaning, RFID,

and System Check, EPA Version

LXV445.99.53212 TU5400sc with Flow Sensor, Automatic Cleaning, RFID,

and System Check, EPA Version

Please note: Other turbidimeter configurations are available and RFID may not be available in all areas. Please visit hach.com or contact your local Hach representative. Please note: An SC controller is required for operation of the TU5300sc or TU5400sc,

controllers are sold separately.

Calibration and Verification

LZY835 Stablcal Primary Turbidity Standards Kit, 10/20/600 NTU,

with RFID

LZY898 Stablcal Primary Turbidity Standards Kit without RFID (10 NTU,

20 NTU, 600 NTU)

LZY901 Glass Rod Secondary Turbidity Standard < 0.1 NTU LZY834 Replacement Vial for TU5300sc and TU5400sc

TU5 Series Accessories

LQV159.97.00002 Automatic Cleaning Module for TU5300sc and TU5400sc

LQV160.99.00002 Flow Sensor for TU5300sc and TU5400sc LZY876 Desiccant Cartridge for TU5300sc and TU5400sc **LZY907.97.00002** Maintenance kit for TU5300sc and TU5400sc

(incl. 20 NTU + 600 NTU vials and <0.1 NTU glass rod)

LZY903 Manual Vial Wiper for TU5200, TU5300sc, and TU5400sc

Part numbers may vary by country.

See also Lab Instruments section for TU5 Series Laboratory Turbidimeters.

