xylem
Lab Solutions

Turb® 750 T

LAB TURBIDIMETER WITH IRPC – THE INTELLIGENT VALUE CHECK

YSI
a xylem brand

BROCHURE
XA00230

Turbidity For Any Application

Water*

Wastewater

Wine/Beer

Food

Livestock/Aquaculture

Pharmaceutical

Industry

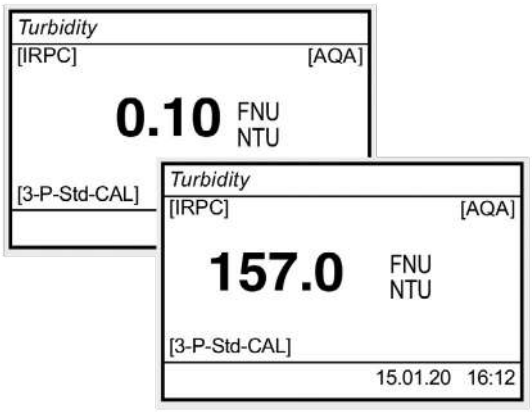
Whether it's about pure water or reliable product quality, turbidity is an important parameter used in many applications across industries from environmental to quality control. The YSI Turb 750 T is the turbidity meter solution for your laboratory demands.

* To fulfill regulations in drinking water surveillance: **Turb 750 T** according to USEPA 180.1

Results You Can Trust

We make possible what the scattering properties of water allow: A highly precise turbidity measurement between 0–1100 FNU/NTU with automatic switch of measurement range providing the most technically accurate result possible!

The Turb 750 T Series turbidimeters assist you with sophisticated optics, eliminating uncertainty by means of a light trap and our IRPC procedure.



A "stable" Value Must Be A Correct Value

Particles in a solution are in motion and do not stop for measurement. With the Intelligent Reproducibility and Plausibility Check (IRPC) feature the Turb 750 T takes multiple quick measurements followed by subsequent evaluation and removal of outliers. The result are then "frozen" and shown as a stable reading.

This way, IRPC ensures correct and repeatable results.

Reliable Results with AQA

- Easy-to-clean keypad
- AQA support:
  - Interval
  - Tolerance
  - Protocol
- Direct access to essential functions
- AQA flag in the data sets
- Storage with sample ID
- Calibration interval and calibration protocol
- Data filter for data output
- GLP compliant data management

Turb® 750 T System

EPA 180.1 Compliance

Up to date and compliant with the most recent regulatory methods.

Superior Accuracy & Precision

Thanks to Xylem's proprietary Intelligent Reproducility and Plausibility Check (IRPDC), the TURB 750 T deliveries superior accuracy & precision.

Compact

Compact design to maximize bench space.

Affordable

One of the most affordable turbidity meters in the market, without compromising quality.

Durablility

Lightweight and waterproof for the field.

Calibration with AMCO Clear® standards

Turb® 750 T Series is supported by calibration with the proven AMCO Clear® Standards and use of an optimal measurement window from the vials. A calibration kit for 3-point calibration is supplied with the meter. The following menu-guided calibration functions are available:

Default 3-point calibration

Flexible calibration with 2–5 user-defined calibration points

QuickCAL: 1-point calibration

Setting of calibration interval

Storage of calibration protocol

Advantages of AMCO Clear® Standards

AMCO Clear® Standards are made from polymer microspheres and provide a superior level of accuracy and precision:

- Long-term stability without drift (unlike formazine)
- Accurate to 1 % lot-to-lot
- Optimized for the respective optics
- Traceable to formazine
- Environmentally friendly and non-toxic
- Easy-to-use

A successful calibration with AMCO Clear® standards is essential to obtain precise and reproducible results on the Turb 750 T.

Data Management with Turb® Data

Measured values are stored as data sets with the associated calibraitonprotocol, sample ID and AQA information.

There are many ways to output data to match different needs.

Send it to a printer by pressing the print key or transfer directly to a PC with the supplied PC software Turb® Data:

- GLP compliant data transfer
- Instrument recognition via serial number
- User name input
- Output in CSV format
- Data export to Excel
- Data import into LIMS

Sample ID:

Get advanced data storage and output the sample-ID directly on the meter or onto a PC. The meter allows for your samples to be uniquely labeled alphanumerically, including special characters, up to 12 digits. This unique ID is included weather you need to automatically print your data or upload your data with the Turb(r) Data Software.

Turb® 750 T Technical Specifications	
Measuring standards	US EPA 180.1
Light source	White light Tungsten filament lamp
Measuring mode	Nephelometric (90° scattered light)
Display	Backlit graphics display, 160 x 104 Pixels
Keypad	Easy-to-clean foil keypad with alphanumeric entry option
Measuring range	0-1100 NTU
Units	NTU
Resolution	0.01 FNU/NTU in the range 0.00 – 9.99 FNU/NTU 0.1 FNU/NTU in the range 10 – 99.99 FNU/NTU 1 FNU/NTU in the range 100 – 1100 FNU/NTU
Accuracy	0.01 NTU or ± 2% of reading, ± 3% in the range 500–1100 NTU
Repeatability	≤ 1% of reading
Reading mode	Measurement with Intelligent Reproducibility and Plausibility Check (IRPC) procedure, rapid settlement samples supported by fast response time and IRPC.
Response time	7 sec
Calibration – options	Default 3 points standard calibration, flexible calibration with 2–5 user defined calibration points, QUICKCal
Calibration protocol and interval setting	yes/yes
AQS-Support	Calibration protocol, AQA flag, cal flag
Data storage	2500 data sets with cal protocol, AQA flag
Sample Identification	Alphanumeric entry via keypad
Firmware update	via USB
Interface	RS 232, USB, printer via PC or RS232
Storage condition instrument	– 25… + 65 °C (13…149 °F)
Operating temperature range	+5 … + 55 °C (41…131 °F) +5 … + 40 °C (41…104 °F) with power plug connected
GLP-compliant PC software	Turb® Data
Dimensions (H x W x D)	ca. 290 x 190 x 80 mm (11.42 x 7.48 x 3.15 inches)
Weight	1.1 kg
Calibration standards	Cal.Kit for 3-P standard calibration: long-term stable polymer AMCO® Clear standards, 0.02 – 10.0 –1000 FNU/NTU
Vials , sample volume	28 mm diameter vials, min. volume 15 ml, borosilicate glass, phenolic resin cap, PTFE-coated rubber seal. No silicon oil required to cover scratches for measurement procedure!
Sample conditions	Sample temperature < 70 °C (158 °F)
Power supply	Wide range power supply with plugs for Euro, US, UK and Australia
Certificates	CE
Delivery scope	Lab turbidimeter Turb® 750 T, four 1.5 V AA type batteries, wide range power supply, cable USB-A to USB-B mini, six empty 28 mm vials, cap labels for orientation marking, Cal.Kit Turb® 750 T, cloth, quick guide, compact operation manual, CD-ROM with extended manual, CD-ROM with Turb® Data PC software, inspection protocol

Ordering Information		Order No.
Turb 750 T Lab turbidimeter	Turb® 750 T lab turbidimeter with Tungsten white light according to US EPA 180.1, single instrument with calibration standards set (0.02–10.0–1000 NTU), univer-sal power supply 90–250 VAC, six empty vials, PC software Turb® Data	600131Y
Turbidity Calibration Standards Kit	Calibration standards set for Turb® 750 T: 0.02 – 10.0 – 1000 NTU	600561Y

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