



Turb[®] 750 Series

LAB TURBIDIMETER WITH IRPC - THE INTELLIGENT VALUE CHECK



a xylem brand

For any application:

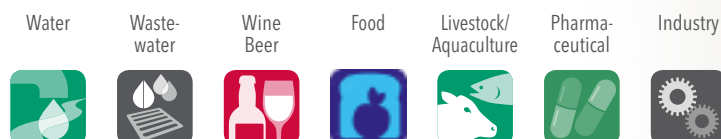
Whether it's about pure water or reliable product quality, **turbidity** is often an ideal parameter to use in many applications - and maybe even in fields you have not even thought of before:

- From water* to wine,
- From juice quality to food cleaning processes,
- From fuel to pharmaceutical,
- From industry to aquaculture.

*) To fulfill regulations in drinking water surveillance, two instrument models are available:

Turb® 750 IR according to DIN EN ISO 7027-1

Turb® 750 T according to US EPA 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 Series turbidimeters assist you with sophisticated optics, eliminating uncertainty by means of a light trap and our IRPC procedure (see below for definition).

| Turbidity | |
|------------------------|-------|
| [IRPC] | [AQA] |
| 0.10 FNU NTU | |

| Turbidity | | |
|-------------------------|----------------|-------|
| [3-P-Std-CAL] | [IRPC] | [AQA] |
| 157.0 FNU NTU | | |
| [3-P-Std-CAL] | 15.01.20 16:12 | |

Measurement with automatic range adaption

IRPC: A "stable" value must be a correct value

Particles in a solution are in motion and do not stop for the measurement. With the **I**ntelligent **R**eproducibility and **P**lausibility **C**heck (IRPC) procedure, quick multiple measurements with subsequent evaluation and elimination of outliers are performed. The result is "frozen" and shown as a stable reading.

This way, IRPC secures correct and repeatable results.



2 year
guarantee

IP 67



Calibration with AMCO Clear® standards

Turb® 750 Series is supported by calibration with the proven AMCO Clear® Standards and the use of an undisturbed 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
- PharmaCAL offering 3, 6, 12, 18, 30 NTU (0.02, 10.0, 1000 NTU/FNU)
- Lot# entry (optional)
- 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.



Reliable results with AQA

- Direct access to essential functions
- Easy user administration with password protection (4-digit PIN), 3 levels
- AQA support:
 - Interval
 - Tolerance
 - AQA proof standards
 - Protocol
- AQA flag in the data sets
- Alphanumeric sample ID
- Calibration interval and calibration protocol
- Data filter for data output
- GLP compliant data management/ MultiLab Importer offering barcode option

| - AQA - | |
|----------------|--------------|
| AQA: | On |
| AQA protocol: | |
| AQA tolerance: | 10% |
| AQA interval: | 90d |
| Standard: | 10.0 FNU/NTU |

| | |
|---------------------|---|
| Store (996 free) | |
| 15.01.2020 11:24:16 | |
| 16.80 FNU/NTU | |
| assign ID: | 1 |
| Store (ID: 1) | |

Storage with sample ID

AQA settings



Direct access to AQA functions



AMCO Clear®
Kal.Kit 430/750 IR

Data management with Turb® Data

Measured values are stored as data sets with the associated calibration protocol, sample ID and AQA informations.

The data output can be done either via the cost-free Multilab Importer (Excel-AddIn), printer or hyperterminal by pressing the print key or, more easily, 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

Data will be automatically sent to interface, addressing printer or company-specific protected data management (LIMS / terminal programs).*)

*) For programmers, an instruction for the direct data transfer from instrument into company systems is available on demand.



Technical Data

| Instrument model | Turb® 750 IR | Turb® 750 T |
|---|---|---|
| Measuring standards | DIN EN ISO 7027-1 (830-890 nm) | US EPA 180.1 (400-600 nm) |
| Light source | Infrared LED | 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 FNU/NTU | 0-1100 NTU |
| Units | FNU/NTU | NTU |
| Resolution | 0.01 FNU/NTU in the range 0.00-9.99 FNU/NTU, optional 0,001 FNU/NTU < 1 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 FNU/NTU or ± 2% of reading | 0.01 NTU or ± 2% of reading, ± 3% in the range 500-1100 NTU |
| Repeatability | < 0.5% of reading | < 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 | 4 sec | 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 IR/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® 430/750 IR or T, cloth, quick guide, compact operation manual, CD-ROM with extended manual, CD-ROM with Turb® Data PC software, inspection protocol | |

Ordering Information

| Model | Description | Order No. |
|--|--|-----------|
| Lab turbidimeters | | |
| Turb 750 IR | Turb® 750 IR lab turbidimeter with infra red LED according to DIN EN ISO 7027-1, single instrument with calibration standards set (0.02 - 10.0 - 1000 FNU/NTU), universal power supply 90-250 VAC, six empty vials, PC software Turb® Data | 600120 |
| Turb 750 T | 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), universal power supply 90-250 VAC, six empty vials, PC software Turb® Data | 600130 |
| Turbidity calibration standards | | |
| Kal.Kit Turb® 430/750 IR | Calibration standards set for Turb® 430 IR, Turb® 750 IR and photoFlex® Turb: | 600560 |
| | 0.02 - 10.0 - 1000 FNU/NTU | |
| Kal.Kit Turb® 430/750 T | Calibration standards set for Turb® 430 T and Turb® 750: 0.02 - 10.0 - 1000 NTU | 600561 |

Xylem | 'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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