

# Turbidity Laboratory Turbidity Meters

## Turb 550 / Turb 550 IR



- AutoRange
- Automatic 1-3 point calibration
- Flow-thru measurement

### THE professional turbidity meter – Up to 1,000 NTU

Laboratory turbidity meters for nephelometric measurements with automatic 1-3-point calibration and calibration interval monitoring. Measuring range selection from 0.01 ... 1000 NTU is carried out automatically and for comparative measurements the current and previous values can be shown on the 2-line display.

Standard equipment includes instrument with built-in short operating instructions, 2 empty cuvettes and 3 standards (0.02 – 10.0 – 1000 NTU, AMCO® standards with approval for drinking water as primary standards according to US EPA and according to EN ISO 7027).

An unpressurized flow-thru adapter is available for continuous measurements.



## Technical Data

	Turb 550	Turb 550 IR	Turb 555	Turb 555 IR
Measuring principles	Nephelometric	Nephelometric ratio method	Nephelometric ratio method transmission	Nephelometric ratio method transmission
Light source	Tungsten lamp	IR-LED	Tungsten lamp	IR-LED
Measuring range	NTU 0 ... 1000 FNU – EBC – Nephelos – FAU –	0 ... 1000 0 ... 1000	0 ... 10000 – 0 ... 2450 0 ... 67000	0 ... 10000 0 ... 10000 0 ... 2450 – 0 ... 10000
Resolution	0.01 NTU from 0.00 ... 9.99 0.1 NTU from 10.0 ... 99.9 1 NTU from 100 ... 1000		0.0001 NTU from 0.0001 ... 9.9999 NTU 0.001 NTU from 10.000 ... 99.999 NTU 0.01 NTU from 100.00 ... 999.99 NTU 0.1 NTU from 1000.0 ... 9999.9 NTU	
Accuracy	±2% of value or ±0.01 NTU		0 ... 1000 NTU: ±2% of value or ±0.01 NTU 1000 ... 4000 NTU: ±5% of value 4000 ... 10000 NTU: ±10% of value	
Reproducibility	±1% of value or ±0.01 NTU			
Calibration	Automatic 1...3 point calibration		Automatic 1...5 point calibration	
Response time	< 3 seconds		< 6 seconds	
Cuvettes	1.1 x 2.76 in (28 x 70 mm) round cuvette, 25 ml sample volume			
AQA functions	Calibration interval monitoring Calibration protocol		Calibration interval monitoring Calibration protocol Password-protected access to calibration and configuration time-controlled data transmission	
Operating temp.	50 ... 104 °F (+10 ... +40 °C)		32 ... 122 °F (0 ... +50 °C)	
Power supply	Plug-in power supply 100 - 240 VAC ±10% / 47 - 63 Hz			

### Turb 555 / Turb 555 IR



#### The ADVANCED professional meter – Measuring range up to 10,000 NTU

High-precision laboratory turbidity meter with a wide measuring range of 0.0001 to 10000 NTU (automatic measuring range switching) for all turbidity measuring applications from ultrapure and drinking water measurements, through quality assurance in soft drinks and wastewater treatment.

The measuring system with its 4 detectors allows not only nephelometric (90° scatter) measurements and transmittance measurements, but also ratio measurements in which the influences of stray light and sample color are reduced.

Comprehensive AQA functions such as monitoring the calibration interval or password protection for calibration and setup access help to assure the quality of the measurements and are all also included in the documentation of the measurements.

Units come complete with all accessories required for accurate measurements.

Continuous flow-thru measurements are possible up to a pressure of 1 bar with FLOW-THRU-TURB vessel.



- Measuring range 0.0001 to 10000 NTU with AutoRange function
- Automatic 1...5 point calibration
- Values displayed in
  - NTU
  - EBC
  - FNU, FAU (Turb 555 IR)
  - Nephelos (Turb 550)
- Flow-thru measurement



## Ordering Information

Model		Order No.
Turb 550	Laboratory turbidity meter with universal power supply 90 ... 250 V, 3 calibration standards 0.02 – 10.0 – 1000 NTU, 2 empty cuvettes	600 100
Turb 550 IR	Laboratory turbidity meter for measurements according to DIN EN 27 027, ISO 7027 (EN ISO 7027) universal power supply 90 ... 250 V, 3 calibration standards 0.02 – 10.0 – 1000 NTU, 2 empty cuvettes	600 110
Turb 555	High-end laboratory turbidity meter according to US EPA with universal power supply 90 ... 250 V, 4 calibration standards 0.02 – 10.0 – 100 – 1750 NTU, 3 empty cuvettes	600 200
Turb 555 IR	High-end laboratory turbidity meter according to DIN/ISO (EN ISO 7027) with universal power supply 90 ... 250 V, 4 calibration standards 0.02 – 10.0 – 100 – 1750 NTU, 3 empty cuvettes	600 210

Flow-thru vessels, calibration standards and other accessories see brochure "Product Details"

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