

Portable Turbidity Meters

Turb® 430 IR / Turb® 430 T

- Scattered light characteristics according to Pharmacopeia 5.0
- Multifunctional LabStation
- GLP/AQA conform documentation

Lab accuracy & comfort in portable field instrument

With the turbidimeters Turb® 430 T and Turb® 430 IR, the user has the choice to perform nephelometric measurements at 90° scattered light, according to the application and standard required.

The Turb® 430 IR meets the DIN 27027/ISO7027 requirements, the Turb® 430 T those of US EPA 180.1. The measuring range is from 0 to 1100 NTU/FNU and is identified automatically. Accurate measurements in the lower range, e.g. in drinking water, are easily achieved.



All measurements and menu driven 3-point calibration along with the easy functions for accurate and precise measurements require minimal training. The calibration is performed via an AMCO Clear® standards set (0.02-10-1000 NTU). Up to 1000 data sets with ID numbers can be stored and output using the LabStation and powerful LSdata software. (see page 108).



A turbidity measuring lab for in the field – the Turb® 430IR/T sets

The quality of the measurement results is supported by adjustable calibration intervals with documentation.

The Turb® 430 is not only a field measuring instrument (especially with the practical field case), but also a “small lab instrument” for applications up to 1100 NTU/FNU and with optimum data management.

Optional: single meter, field case with LSdata, accessories (see WTW Product Details).

Turb® 355 T / Turb® 355 IR

- 0 – 1100 NTU/FNU
- Easy operation
- Convenient



Small portable turbidity meter for control purposes

Battery-operated portable turbidity meter with Tungsten lamp according to US EPA or infrared LED (860 nm) for nephelometric measurements according to ISO 7027/DIN/EN 27 027 (EN ISO 7027): Handy, lightweight and easy-to-operate.

The Turb® 355 T / IR comes in a handy carrying case. All necessary accessories (calibration standards 0,02 – 10,0 and 1000 NTU, empty cuvettes and batteries) are included. The instrument is powered by 4 AAA batteries.

Technical Data

		Turb® 430 IR / Turb® 430 T	Turb® 355 T / 355 IR
Measuring principles		Nephelometric (90° scatter)	Nephelometric (90° scatter)
Light source		IR-LED/Tungsten lamp	Tungsten lamp/IR-LED
Measuring range	NTU FNU	0 ... 1100 / 0-1100 0 ... 1100	0 ... 1100 0 ... 1100
Resolution		0.01 from 0.00 ... 9.99 0.1 from 10 ... 99.90 1 from 100 ... 1100	0.01 NTU from 1 ... 9.99 0.1 NTU from 10.0 ... 99.9 1 NTU from 100 ... 1000
Accuracy		0.01 NTU or ±2 % of the measured value	±2 % of the measured value or ±0.1 NTU last decimal place in range 1 ... 500 NTU ±3% of the measured value in range 500 ... 1100 NTU
Reproducibility		<0.5% of the measured value or 0.01 NTU/FNU	±1% of the measured value or ±0.05 NTU/FNU
Calibration		Automatic 3 point calibration	Automatic 1...3 point calibration
Response time		Approx. 3 seconds (IR) / approx. 7 seconds (T)	14 seconds
Cuvettes		28x60 mm (1.10x2.36 in.), 20 ml sample volume	25x45 mm (0.98x1.77 in), 15 ml sample volume
Interface		RS 232, USB via adapter	
Special functions	Calibration protocol Storage of measured value RS 232 Date/Time Data evaluation Rechargeable battery	Yes 1000 Yes Yes Yes Optional	— — — — — —
Operating temp.		0 ... +50 °C (32 ... 122 °F)	0 ... +50 °C (32 ... 122 °F)
Power supply		4 x AA batteries for approx 3,000 measurements	4 micro (AAA) alkaline manganese batteries suitable for more than 1,500 measurements

Ordering Information

Model		Order No.
Turb® 355 IR	Portable turbidity meter according to ISO 7027 / DIN EN 27 027 (EN ISO 7027) in professional case with 4 micro (AAA) alkaline manganese batteries, 3 calibration standards 0.02 – 10.0 – 1000 NTU and 2 empty cuvettes	600 311
Turb® 355 T	same as Turb® 355 IR, but with tungsten lamp according to US EPA	600 312
Turb® 430 IR	Portable turbidity measuring instrument (90°) according to DIN EN 27027, includes calibration kit (0.02 - 10 - 1000), 2 empty cuvettes, cleaning tissues, batteries (4 x AA), suited for drinking water. Optional LabStation or rechargeable battery pack, set, LSdata (see WTW Product Details)	600 320
Turb® 430 T	Portable turbidimeter (90°, tungsten) according to US EPA 180.1, includes calibration standard kit (0.02-10-1000 NTU) and accessories: 2 empty cuvettes (28 mm), cleaning tissues, batteries (4 x AA); suitable for drinking water. Optional LabStation or rechargeable battery pack, set, LSdata (see WTW Product Details)	600 325

Turb® 430 IR / Turb® 430 T:



Turb® 355 T / Turb® 355 IR:

