Solution for low-turbidity accuracy

(Applicable for TN500 and TN480)

Solution 1 — TruRead[™] Measurement Mode

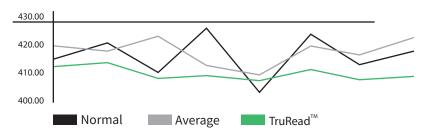
Water turbidity is a complex analytical measurement. The accuracy will be affected by many factors such as precipitation, suspension, air bubbles, stray light, instrument errors, operating techniques, cuvette contamination, and cuvette optical errors.

TruRead[™] mode significantly reduces the above measurement errors.

Avera Max: 3.6	7	60 NTL Min: 3.5	
01) 3.59	02) 3.58	03) 3.60	04) 3.58
05) 3.60	06) 3.59	07) 3.60	08) 3.61
09) 3.60	10) 3.60		

- * TruRead™ Mode (10 times)
- According to different sample solutions, choose 5/10/15/20 times for continuous measurement and read the average value.
- The max and min values help you determine the reliability of measurement, whether the sample solution is sufficiently mixed, settled, or degased.
- Display or save the complete measurement interface, including MAX, MIN, average, and all measurement values.

Comparison of three measurement modes



Solution 2 — 0 NTU Error Reminder

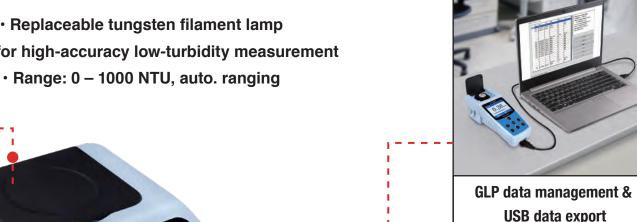
If the zero point is calibrated with contaminated 0.0 NTU standard solution, the measurement will have a negative error. The instrument can automatically recognize the negative error at the zero point and remind users to re-calibrate, as shown in the right figure. If the reminder appears again after calibration, it means that the 0.0 NTU standard solution maybe invalid and should be replaced.



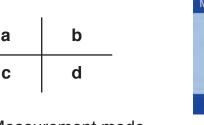
*0 NTU error reminder

Compliant with EPA 180.1 Method

- · Replaceable tungsten filament lamp
- · Ideal for high-accuracy low-turbidity measurement







a. Measurement mode

Place the sample vial

- b. Calibration mode
- c. Calibration setup
- d. Settings





Extraordinary reliability and convenience

Range: 0 - 1000 NTU

Achieve lab-grade accuracy wherever you are, suitable for tap water, drinking water, swimming pools, beverage making, environmental monitoring, etc.

Customized AMCO® Polymer Standard Calibration Solutions

Approved by U.S EPA and ASTM, AMCO® high-molecular polymer turbidity standard solutions are the best alternatives to Formazin standards in terms of shelf-life, ease of use, and safety concerns.

	Formazin solutions	AMCO® polymer solutions
Toxicity	Highly toxic, PPE is necessary when handling	Non-toxic
Operation	Requires diluting, complicated operation.	No diluting needed, use directly
Shelf life	<2 NTU: 1 hour; 2 – 20 NTU: 12 – 24 hours; 20 – 400 NTU: 1 month	1 year
Storage condition	Avoid sunlight at low temperature	Avoid sunlight at room temp.
Convenience	Easy to settle, requires flipping and mixing	Very stable, can be used directly
Traceability	Non-traceable	NIST traceable



*AMCO® Standard Solution Set



*Sample cuvettes (6 units come with the kit)

///// Portable Turbidimeters ////// Compliant with ISO 7027 Method

•Infrared LED light source, compliant with ISO7027 and DIN EN 27027 Method

• Ideal for colored sample solutions such as wine and beer

• Range: 0 – 1000 NTU, auto. ranging

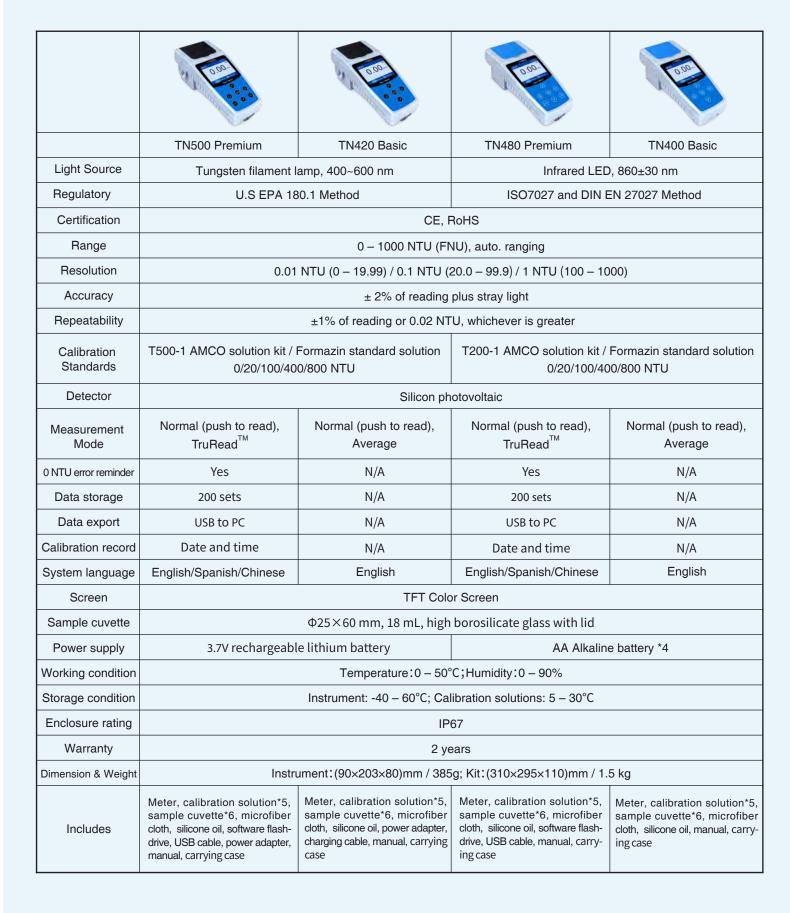
• TruRead™ mode (TN480 only) compensates errors by particles in solutions





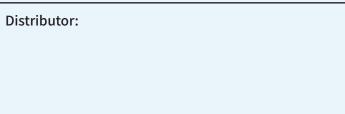
*Compl	ete Kit
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Model	Name	Description	Memo
TN500	Portable turbidimeter kit	Refer to technical specs	EPA • Premium
TN420			EPA • Basic
TN480			ISO • Premium
TN400			ISO • Basic
T500-2	0 NTU standard	0.0NTU/100mL	applicable for all
T500-1	Standards kit	20/100/400/800NTU	TN500/TN420
T200-1	Standards kit	20/100/400/800NTU	TN480/TN400
T500-3	Sample cuvettes	Φ25×60 mm,6 units	applicable for all
TN500-5	Replacement lamp	/	TN500/TN420
TN500-4	Lithium battery	3.7V rechargeable	TN500/TN420
TN400-S3	Silicone oil	10mL	applicable for all





Tel: 614-285-3080 Email: info@aperainst.com Address: 6656 Busch Blvd, Columbus, Ohio 43229 Website: aperainst.com





Portable Turbidimeters

	EPA Compliant	ISO Compliant	
Premium	TN500	TN420	
Basic	TN480	TN400	

