

Taylor's TTi® 3000

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Colorimeter

**FOR WATER TREATMENT
PROFESSIONALS**

GET RELIABLE PERFORMANCE
AND USER-FRIENDLY FEATURES



ITS NOT EITHER/OR
ANYMORE!



the most trusted name in water testing

Taylor Technologies, Inc.

410-472-4340

800-TEST KIT (837-8548)

www.taylortechnologies.com

ISO 9001:2008 Certified

The TTI® 3000 Colorimeter from Taylor Technologies offers water analysts reliable results plus a variety of features to maximize your productivity. This handheld, multiwavelength, microprocessor-controlled, menu-driven, direct-readout instrument employs LED light sources. Its portability and data-logging capabilities make it well suited for use in the field in addition to the laboratory.

Dependable chemistries from the most trusted name in water testing:

serving industrial water treaters with distinction since 1930
 manufacturer's Quality Management System is certified to ISO 9001:2008
 Accuracy Check Kit for quality control
 toll-free technical support from both chemists and programmers

Durable construction:

custom-crafted for use under harsh conditions: chemical-, impact-, and heat-resistant housing; sure-grip molding; liquid crystal display protected from abrasion and chemicals
 IP67-certified as dust tight and immersible to 1 meter for 30 minutes
 complies with Canadian ICES-003 and European CE mark directives

• 5-YEAR WARRANTY

Ergonomic design:

fits neatly to hand; only weighs 21 ounces
 runs on batteries and AC power (batteries and power adapter included)
 automatic wavelength selection
 intuitive navigation using directional arrows
 graphical LCD with anti-glare coating offers excellent contrast and readability
 adjustable backlighting; a timeout feature conserves battery life
 tests organized alphabetically, not by a test number
 create your own menus of favorite tests and favorite series of tests
 auto-read function on test timer
 never miss another test result because you got preoccupied with other tasks!
 second, general-purpose timer
 adjustable automatic shutoff

Preprogrammed tests for commercial and industrial applications:

30+ analytes (several with multiple ranges), including all the most popular boiler and cooling water tests
 lifetime **FREE** upgrades as new tests are developed
 accepts 8 additional user-developed tests of 12 data points each
 read results in Concentration, % Transmission, or Absorbance
watch video demonstrations of tests on our website

Data interface software makes managing account records simple:

store up to 100 date- and time-stamped test results in memory
 USB cable provided for data transfer to your PC or laptop
 Windows -based TTI® Colorimeter Series PC App included in meter purchase
 dedicated website for software support



Never miss seeing your timed-test result with the TTI 3000's auto-read function.



(1) Rigid foam insert inside; use with optional soft case

M-3000 COMPONENTS



plus:

TTI® Colorimeter Series PC App
 Online TTI® Colorimeter Series User's Manual
 Lifetime **FREE** access to new test files (no need to return meter to manufacturer)

OPTIONAL ACCESSORIES



▲ K-8000 TTI® Colorimeter Series Accuracy Check Kit

Verify instrument performance at all wavelengths using five secondary absorbance standards.



▲ #7146 Soft Carrying Case

Heavy-duty 600 denier polyester, sized to accommodate the rigid foam insert the M-3000 ships in.



▲ #9502 Hard Carrying Case (closed)



▲ #9502 Hard Carrying Case (open)

SPECIFICATIONS

Dimensions	
Size	3-1/2 in. wide x 8-1/2 in. deep x 3-1/2 in. high
Weight (with batteries)	21 oz.
Liquid Crystal Display	160 x 100 resolution & polarized
Sample Cell Compartment	Accommodates 25 & 15 mm round sample cells
Part #9502 Hard Carrying Case (purchase separately)	20 in. wide x 15-5/8 in. deep x 5-1/2 in. high
Part #7146 Soft Carrying Case (purchase separately; use with rigid foam shipping insert)	11 in. wide x 7 in. deep x 4-5/8 in. high

Performance	
Photometric Range	0–2 ABS
Photometric Accuracy	±0.005 ABS @ 1.0 ABS nominal
Photometric Linearity	±0.002 ABS (0–1 ABS)
Repeatability	±0.005 ABS (0–1 ABS)
Resolution	0.001 ABS (0–1 ABS)
Wavelength Filters	420, 470, 520, 570, 620 & 660 nm
Wavelength Accuracy	±1 nm
Wavelength Bandwidth	10 nm ±1 nm
Stray Light	< 1.0%

Instrument Rating	
Power Source	4 x AA 1.5V alkaline or lithium batteries, AC power adapter, or USB cable
Battery Life (w/o backlight)	4 months (typical use, 12 tests/day, 5 days/week) w/ low battery indicator
Max Current	100 mA @ 5VDC
AC Power Adapter Input	100–240 VAC, 50/60 Hz
Input and Output Connections	Mini-B female USB port for data transfer and connection to AC power adapter or USB cable
Environmental Conditions	Operational temperature range: 32°F–122°F (0°C–50°C)

Minimum System Requirements for PC App	
CPU	Pentium® III or better
RAM	500 megabytes
Available Hard Disk Storage	30 megabytes
Operating System	Windows® XP, Windows® Vista, or Windows® 7 (compatible with 32-bit and 64-bit systems)

AVAILABLE TESTS

Kit No.	Analyte	Range(s)	Comment
K-8024	Alkalinity, Total	0–250 ppm CaCO_3	no interference from biguanide up to 50 ppm
K-8038	Ammonia-Nitrogen	0–1.00 ppm $\text{NH}_3\text{·N}$	
K-8033	Azole	0–25.0 ppm TT or BT	results as tolyltriazole or benzotriazole; SteriPEN UV Light (#6656), SpeedStir (#6100), and Spinvane Stirring Bar (#6657) required for test; purchase separately or with reagents as K-8033-AC
K-8040	Biguanide	0–70 ppm PHMB	
K-8041	BlueTrace (6120) 10	1.0-10 mg/L PCT 6120	
K-8018	Boron	0–2.00 ppm B	
K-8002	Bromine, Total	0–10.00 ppm or 0–20.0 ppm Br_2 (uses DPD/P)	no powder clumping, no cloudiness
K-8001	Chlorine, Free & Total	0–4.00 ppm, 0–8.0 ppm, or 0–10.0 ppm Cl_2 (uses DPD/P)	no powder clumping, no cloudiness
K-8039	Chlorine Dioxide	0–8.0 ppm ClO_2	
K-8013	Copper, Free	0–0.200 ppm Cu	
K-8012	Copper	0–3.00 ppm Cu	
K-8032	Cyanuric Acid	7–120 ppm CYA	
K-8026	Hardness, Calcium	0–4.00 ppm CaCO_3	
K-8030	Hardness, Calcium	0–800 ppm CaCO_3	
K-8022	Hardness, Total	0–4.00 ppm CaCO_3	
K-8029	Hardness, Total	0–500 ppm CaCO_3	
K-8015	Hydrazine	0–1.50 ppm N_2H_4	only 2 minutes to color development
K-8020	Hydrogen Peroxide	0–2.00 ppm H_2O_2 ; by dilution: 2–20 ppm, 20–100 ppm, or 100–125 ppm H_2O_2	
K-8010	Iron, Ferrous	0–3.00 ppm Fe^{2+}	
K-8011	Iron, Total	0–0.300 ppm Fe	perfect for testing steam condensate
K-8009	Iron	0–4.00 ppm Fe	
K-8034	Manganese	0–0.80 ppm Mn	
K-8017	Manganese	0–30.0 ppm Mn	
K-8003	Molybdenum	0–3.30 ppm Mo	
K-8028	Molybdenum	0–60.0 ppm Mo	
K-8031	Monopersulfate	0–10.0 ppm Cl_2	active ingredient in DuPont™ Oxone®
K-8035	Nitrate	0–44 ppm NO_3^-	
K-8021	Nitrite	0–150 ppm NO_2^- ; by dilution: 150–1500 ppm NO_2^-	only 2 minutes to color development
K-8016	Oxygen Scavenger	0–1.000 ppm Carbo.; 0–0.700 ppm DEHA; 0–2.450 ppm Eryth.; 0–2.000 ppm Hydro.; 0–3.000 ppm MEKO	
K-8027	pH	6.50–8.50	employs liquid, not tablets
K-8027AB	pH (with Acid & Base Demand)	6.50–8.50	
K-8005	Phosphate	0–3.00 ppm (20–3000 ppb) PO_4^{3-}	
K-8004	Phosphate	0–70.0 ppm PO_4^{3-}	
K-8014	Phosphonate	0–30.0 ppm PO_4^{3-}	SteriPEN UV Light (#6656) required for test; purchase separately or with reagents as K-8014-AC
K-8006	Polymer, Free	0–20 ppm or 20–500 ppm PAA (polyacrylic acid)	
K-8008	Silica	0–4.00 ppm SiO_2	
K-8007	Silica	0–60.0 ppm SiO_2	5-minute reaction time + 2-minute color development vs. much longer with others
K-8023	Sodium Chloride (salt)	0–80 ppm NaCl; by dilution: 75–150 ppm, 150–500 ppm, 500–2000 ppm, or 2000–8000 ppm NaCl	
K-8025	Sulfide	0–1.00 ppm S^{2-}	only 1-minute test time
K-8036	Turbidity	10-400 FAU	
K-8019	Zinc	0–3.00 ppm Zn	no cyanide, cyclohexanone, or formaldehyde used; no need to adjust sample pH; minimal or no interference from most metals