

eXact®
MICRO 20

USEPA
COMPLIANT
FREE AND TOTAL
CHLORINE
DIOXIDE
(4500-CL G STANDARD)

NEW
2012

525 NM AND 638 NM DUAL WAVELENGTH PHOTOMETER

Introducing the ultimate Water Quality Tester: the eXact® Micro 20 dual wavelength photometer. Unit features ultra-performance by the use of narrow band wavelength filters; stable, long-life LEDs; and a built-in cell that uses a new, patented method for colorimetric analysis. Tests use an identical 20-second procedure called the EZ-3™ Reagent Delivery methodology that simplifies testing for non-technical users. The eXact® Micro 20 delivers lab-quality accuracy at minimal cost and effort.

eXact® MICRO 20 TESTS

For use in accordance with U.S. Patent Nos. 7333194 and 7491546

NO.	PARAMETER/TEST	PART #	RANGE	CHEMISTRY	USD/TESTS
	eXact Micro 20 Meter Only	486700	N/A	N/A	N/A
	eXact Micro 20 Meter Kit	486700-K	N/A	N/A	N/A
	<i>Includes carrying case (486001), Free Chlorine (486637), and Total Chlorine (486638)</i>				
	Dilution Kit	487200	N/A	N/A	N/A
	<i>Includes 1ea., 500ml Vented Wash Bottle, Plastic Lab 50ml Graduated Cylinder w/ seal, 1ml syringe, 5ml syringe</i>				
	Mini Dilution Kit II	487202	N/A	N/A	N/A
	<i>Includes 1ea., 50ml Graduated Conical Tube with cap and 3.0ml syringe</i>				
	eXact Micro Meter Carrying Case	486001	N/A	N/A	N/A
1	Alkalinity, Total	486641	0 - 320 ppm	Alizarin Red S + Citrate	100
2	Aluminum	486821	0 - 0.9 ppm	PV	50
3	Ammonia	486654	0 - 2.4 ppm	Salicylate Method	25
4	Biguanide	486810	0 - 250 ppm	Bromophenol Blue	50
5	Bromine (DPD-1)	486636	0 - 12 ppm	DPD	100
6	Chloride (as NaCl) II	481657-II	0 - 430 ppm	Silver (ppt)	25
7	Chlorine Dioxide (DPD-1)	486633	0 - 10 ppm	DPD	100
8	Chlorine, Free (DPD-1)	486637	0 - 5 ppm	DPD	100
9	Chlorine, High Range	486672	0 - 300 ppm	KI + Buffer	50
10	Chlorine, Total (DPD-3)**	486638	0 - 5 ppm	KI	100
11	Chlorine, Total (DPD-4)	486670	0 - 5 ppm	DPD + KI	100
12	Chromium (VI)	486614	0 - 1.8 ppm	Diphenylcarbazide	50
13	Copper (Cu ²⁺)	486632	0 - 11 ppm	Biquinoline	50
14	Cyanide	486812	0 - 2.3 ppm	Isonicotinic/Barbituric Acid	50
15	Cyanuric Acid II	481652-II	0 - 110 ppm	Melamine (ppt)	60
16	Fluoride	486643	0 - 1.45 ppm	SPADNS	25
17	Glycine (used for Chlorine Dioxide)	484014	N/A	Glycine	50
18	Hydrogen Peroxide LR	486616	0 - 2 ppm	DPD + PO ₄ + MoO ₄ + KI	50
19	Total Hardness (as CaCO ₃)	486673	0 - 300 ppm	Phthalein Purple	50
20	Manganese	486606	0 - 1.5 ppm	PAN + Cyanide	24
21	Nitrate (as NO ₃)	486655	0 - 30 ppm	Zinc Reduction	50
22	Nitrite (as NO ₂)	486623	0 - 1.8 ppm	Chromotropic Acid	50
23	Ozone (DPD-4)	486634	0 - 4.5 ppm	DPD + KI	100
24	Peracetic Acid (DPD-4)	486674	0 - 5 ppm	DPD + KI	100
25	Permanganate (DPD-1)	486626	0 - 4.5 ppm	DPD	100
26	pH	486639	5.5 - 8.4 ppm	Phenol Red	100
27	pH, BT	486652	4.5 - 9.2 ppm	Bromothymol Blue & Thymol Blue	100
28	Phosphate	486814	0 - 4 ppm	Molybdate Method	50
29	Quaternary Ammonia	486823	0 - 250 ppm	Bromophenol Blue + buffer	100
30	Sulfate	486608	0 - 200 ppm	Barium (ppt)	50
31	Sulfide	486818	0 - 1.6 ppm	DPD Reagent / FeCl ₃	50
32	Total Iron, TPTZ	486650	0 - 8 ppm	TPTZ + PP	50

** Total Chlorine DPD-3 Test requires Free Chlorine DPD-1 (486637) to be run first.
For resellers and distributors - Meter kits sold in quantities 12 units per case and strips sold in quantities of 14 units per case.

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R040912

eXact® CHLORINE Plus

525 NM

The eXact® Chlorine Plus Test Kit (486696-PLUSK) Includes 25 tests of each:

1 eXact® Chlorine Plus Meter (486696-PLUS)
eXact® Strip Micro Free Chlorine (DPD-1) (486637-25)
eXact® Strip Micro Bromine (DPD-1) (486636-25)
eXact® Strip Micro Ozone (DPD-4) (486634-25)
eXact® Strip Micro Chlorine Dioxide (DPD-1) (486633-25)
eXact® Strip Micro Peracetic Acid (DPD-4) (486674-25)
eXact® Strip Micro Hydrogen Peroxide LR (486616-25)
eXact® Strip Micro Glycine, used for Chlorine Dioxide (484014)
eXact® Strip Micro HR Chlorine (486672-25)
Mini Dilution Kit II (487202-II), Mixing Cap,
Cell Cleaning Brush, Plastic Carrying Case, and Manual



eXact® CHLORINE Plus TESTS

For use in accordance with U.S. Patent Nos. 7333194 and 7491546

No.	PARAMETER/TEST	PART #	RANGE	CHEMISTRY	USD/TESTS
	eXact Chlorine Plus Kit	486696-PLUSK	N/A	N/A	
	<i>Kit Includes carrying case, meter and 25 tests of each: Free Chlorine, Total Chlorine, High Range Chlorine, Bromine, Ozone, Chlorine Dioxide, Peracetic Acid, Hydrogen Peroxide LR, Glycine</i>				
	2.0 PPM Reference Standard Solution	486602-II	N/A	N/A	30
1	Bromine (DPD-1)	486636	0 - 14 ppm	DPD	100
2	Chlorine, Free (DPD-1)	486637	0 - 11 ppm	DPD	100
3	Chlorine, Total (DPD-4)	486670	0 - 11 ppm	DPD + KI	100
4	Chlorine Dioxide (DPD-1)	486633	0 - 12 ppm	DPD	100
5	Chlorine, High Range	486672	0 - 300 ppm	KI + Buffer	50
6	Hydrogen Peroxide LR	486616	0 - 3 ppm	DPD + PO ₄ + MoO ₄ + KI	50
7	Ozone (DPD-4)	486634	0 - 9 ppm	DPD + KI	100
8	Peracetic Acid (DPD-4)	486674	0 - 9 ppm	DPD + KI	100

For resellers and distributors, meter kits sold in quantities of 14 units per case and strips sold in quantities of 12 units per case.

R041012

Our eXact® Micro photometers use an easy patented test method. It's a simple 3 step procedure that takes about 30 seconds for most tests making it the ideal tool for wash water testing professionals to identify many problems that other test kits overlook. Accuracy is improved by the easy, non-technical procedure.



Fill built-in cell and zero meter



Dip strip for 20 seconds to dispense reagent



Read your eXact® result!



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INDUSTRIAL TEST SYSTEMS, INC.

1875 Langston Street, Rock Hill, SC 29730-7314

Phone: (800) 861-9712, (803) 329-9712 Fax: (803) 329-9743

Email: its@sensafe.com

International: ITSEXP@sensafe.com

ITS EUROPE, LTD

The UK Centre for Homeland Security

Building 7, Chilmark Salisbury, Wiltshire SP3 5DU, UK

Phone: +44 (0) 1722 717911 Fax: +44 (0) 1722 717941

Email: sales@sensafe.com

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SENSAFE



ITSSENS SAFE

PROCESS WATER TESTING

eXact®
CHLORINE
Plus

NEW!

Built in cell!
(no glass to break)

WATERPROOF
(IP-67)

SAFE TO USE
IN PROCESS
AREAS!
No Glass
No Powders
No Tablets

eXact® Chlorine Plus Specifications

Menu	Tests for*	Range	Resolution	Typical Accuracy
CL1	Free Chlorine (DPD-1) & Total Chlorine (DPD-3)	0.00-11.0 ppm	0.01 (0-5.99 ppm)	±3% (0-3.00 ppm)
			0.1 (6-11 ppm)	±7% (3.01-5.99 ppm)
bR2	Bromine	0.0-14 ppm	0.01 (0-5.99 ppm)	±3% (0-2.50 ppm)
			0.1 (6-14 ppm)	±6% (2.51-14 ppm)
O3	Ozone	0.01-9 ppm	0.01 (0.01-5.99 ppm)	±8% (0.01-5.99 ppm)
			0.1 (6-9 ppm)	±16% (6.0-9 ppm)
Cd4	Chlorine Dioxide	0-12 ppm	0.01 (0-5 ppm)	±8%
			0.1 (5.01-12 ppm)	
PA5	Peracetic Acid	0-9 ppm	0.01 (0-5 ppm)	±8% (0-5.00 ppm)
			0.1 (5.1-9 ppm)	±9% (5.1-9 ppm)
HP6	Hydrogen Peroxide	0-3 ppm	0.01 (0-1 ppm)	±10% (0-1.00 ppm)
			0.1 (1.1-3 ppm)	±13% (1.1-3 ppm)
TR7	Transmission	99.9-0.01 %T	0.01 (0.01-99.9 %T)	±1%
			0.1 (10-99.9 %T)	
HR8	High Range Chlorine	0-300 ppm	1	±8%

* Performance verified with various water samples with optimal water temperatures at 10 - 40°C / 50 - 104°F.
Optimal water temperature for High Range Chlorine test is 0-40°C / 32-104°F.

R041212

USEPA
DIN, ISO
COMPLIANT
FOR FREE & TOTAL
CHLORINE
CHLORINE DIOXIDE
(4500-CL G, DIN STANDARD 28 408 64, ISO 7303/2)

MADE IN
THE USA

Scan for Details:



Food and Beverage

SPRING 2012

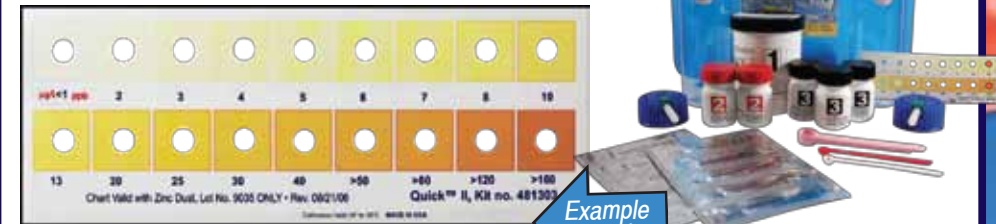
Industrial Test Systems, Inc.

SENSAFE.COM

INORGANIC ARSENIC TEST KITS

- Performance verified by ETV with technical and non-technical operators
- All tests verified through the USEPA/ETV program
- Results in 14 minutes using safe, convenient reagents
- Arizona Point of Use Compliance Program Manual approved
- Mini kits (5 tests) also available

Color Chart:



Inorganic Arsenic Kits Available:

PRODUCT NAME (PART NUMBER)	OPTIMUM RANGE* ppb (µg/L)	TYPICAL COLOR CHART DETECTION LEVELS ppb (µg/L)	TYPICAL ACCURACY** USING QUICK™ ARSENIC SCAN	# OF TESTS
Arsenic Quick™ (481396)	10 to 200	0, 5, 10, 20, 60, 100, 300, 500, >500, >>500	+/-18 ppb or +/-30%	100
Arsenic Quick™ II (481303)	3 to 20	<1, 2, 3, 4, 5, 6, 7, 8, 10, 13, 20, 25, 30, 40, >50, >80, >120, >160	+/-1.2 ppb or +/-16%	50
Arsenic Low Range Quick™ II (481301)	1 to 10	<0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 12, >20, >30, >50	+/-0.8 ppb or +/-14%	50
Arsenic Ultra-Low Quick™ II (481300)	0.5 to 6	0,0.3,0.7, 1.0, 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 13, 20, >20	+/-0.4 ppb or +/-12%	25
Quick™ Arsenic Scan Instrument (481305)	—	0.01 to >1.00 color density ppb (µg/L) (as low as 0.2 ppb (µg/L) arsenic)	(see above)	—

Information on the performance characteristics of Quick™ can be found at www.epa.gov/etv, or call ITS at 1-800-861-9712 for a copy of the ETV verification report. The use of the ETV® Name or Logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.

** As with any test, actual results will fall within a range around the actual value. The Typical Accuracy listed is from data generated by a technician in our lab using the Quick™ Arsenic Scan instrument measuring interference-free aqueous arsenic standards. Kit expected accuracy is the larger of the two values listed. (Example using Quick™: If the mean is 40 ppb, then the typical accuracy is +/-18 ppb which is larger than +/-12 ppb (40 ppb X 30%).)

OTHER METERS AVAILABLE

DX-1 and DX-2 PORTABLE RADIATION DETECTOR

- Screen for radiation in air, food and water
- Detects minuscule amounts of gamma, beta or X-rays



AQUA PRO 1 PORTABLE WATER TESTER

- Measures TDS in tap water, bottled water, aquariums, pools & spas



JENCO POCKET pH TEMPERATURE METER

- Displays pH and temperature simultaneously
- 50 memory storage
- Small and portable



Product	Part Number	Description	
DX-1	RDX-1	0-10 mR/hour (0-100 uSv/hr) - Factory-Calibrated	
DX-2	RDX-2	0-100 mR/hour (0-1000 uSv/hr) - Factory-Calibrated with Recalibration feature	
Aqua Pro 1	AP-1	Measures TDS in waters, salts, metals and minerals	
Jenco Pocket pH Temperature Meter	618NF	Displays pH and temperature at the same time	

Scan for Details:



Part No. 481303

US Patent # 6696300

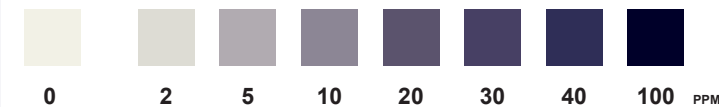
VISUAL TEST STRIPS

PERACETIC ACID

Part No. 480065

- Dip and read the results in only 32 seconds
- No sample dilution required
- Easy to read color blocks
- 3 year shelf life

Color Chart:



Part No. 480065 Product Description Peracetic Acid Tests 50 Detection Levels ppm (mg/L) 0, 2, 5, 10, 20, 30, 40, 100



QUATERNARY “QUATS” AMMONIA

Part No. 480066

- Detect rinse water levels from 0-1000 ppm
- No instrument required
- Safe, non hazardous chemistry
- Results in 1 minute
- Also available in foils and packets

Color Chart:



Part No. 480066 Product Description Quaternary Ammonia (Quats) Tests 50 Detection Levels ppm (mg/L) 0, 100, 150, 200, 250, 300, 350, 400, 1000



FREE CHLORINE

Part No. 480124
Part No. 481026

- Ideal for field and on-site testing
- No instrument required
- Wide level of test ranges (0 -2000 ppm)
- Safe, non hazardous chemistry
- Results in 31 seconds
- #481026 EPA approved for drinking water compliance testing

Part No. 480022 Free Chlorine High Range Tests 50 Detection Levels ppm (mg/L) 0, 1, 2, 5, 10, 20, 40, 60, 120
Part No. 481026 SenSafe™ Free Chlorine Water Check Tests 50 Detection Levels ppm (mg/L) 0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0, >6.0
Part No. 480124 Free Chlorine Check Ultra High II Tests 50 Detection Levels ppm (mg/L) 0, 25, 50, 200, 500, 800, 1100, 1500, 2000



EXTENDED RANGE PH

Part No. 481104

- Rapid pH detection in tap water, process water and control
- Ideal for field and on-site testing
- No instrument required using safe, non hazardous chemistry
- Wide detection levels (2 - 12 ppm)
- Dual pad indicator

Part No. 481104 Extended Range pH Tests 50 Detection Levels ppm (mg/L) 2, 3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12



VISUAL TEST STRIPS

Combining accuracy, sensitivity, affordability, and ease-of-use, our test strips have revolutionized the way water testing is done today. Our strips listed below are simple dip and match test strips pad color to a color chart. They provide accurate, rapid results at an affordable cost. Designed using cutting-edge chemistries and state-of-the-art manufacturing processes, our test strip and test kits replace outdated testing kits that are both labor and cost intensive.



*Patented Test Strip Technology

Bromine	Part No.	Description / Detection Levels	# of Tests
Bromine Check*	480001	Method A: 0, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm (mg/L) Method B: 0.00, 0.05, 0.10, 0.25, 0.50, 0.75 ppm (mg/L)	
Bacteria			
Bacteria Growth Check	481195-30	Growth detection of fastidious micro-organisms on a test strip	30
EZ Coliform Cult (MUG)	487197	Enzymatic Presence / Absence coliform w/ fluorescent <i>E. coli</i> confirmation	
18-Minute Bacteria	487999	18 minutes presence / absence bacteria test at 1000 cfu/mL	
Chloride			
Chloride Check	481027	0, 50, 100, 250, 500 ppm (mg/L)	
Chlorine Dioxide			
Chlorine Dioxide LR*	481028	Method A 0, 0.1, 0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.6 ppm (mg/L) Method B 0.00, 0.05, 0.1, 0.15, 0.2, 0.3 ppm (mg/L)	
Chlorine Dioxide	480031	0.5, 2, 5, 10, 25, 50, 100 ppm (mg/L)	
Free Chlorine			
Free Chlorine Water Check (EPA)*	481026	0.0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5, 2.0, 2.6, 4.0, >6.0 ppm (mg/L)	50
Free Chlorine Check*	480023	0, 0.25, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 15, 20, 25 ppm (mg/L)	50
Free Chlorine Sanitizer Check	481130	0, 1, 3, 5, 10, 12, 15, 20, 40, 80 ppm (mg/L)	30
Free Chlorine High Range	480022	0, 1, 2, 5, 10, 20, 40, 80, 120 ppm (mg/L)	50
Free Chlorine Check Ultra High	480024	0, 25, 50, 100, 200, 300, 400, 500, 750 ppm (mg/L)	50
Free Chlorine Check Ultra High II	480124	0, 25, 50, 200, 500, 800, 1100, 1500, 2000 ppm (mg/L)	50
Total Chlorine			
Total Chlorine*	480010	Method A: 0.0, 0.1, 0.2, 0.5, 0.8, 4.0, 10.0 ppm (mg/L) Method B: 0.0, 0.05, 0.1, 0.15, 0.2, 0.5, 0.8, 1.0, 4.0, 10.0 ppm (mg/L)	50
Ultra Low Total Chlorine*	480007	Method A: 0, <0.01, 0.01, 0.02, 0.05, 0.1, 0.15, 0.2 ppm (mg/L) Method B: 0, <0.005, 0.005, 0.01, 0.015, 0.02, 0.025, 0.05 ppm (mg/L)	30
Total Chlorine High Range	480033	0, 5, 10, 20, 30, 40, 60, 80 ppm (mg/L)	50
Free & Total Chlorine*	480655	0, 0.1, 0.2, 0.5, 1.0, 2.5, 5.0 ppm (mg/L)	30
Hydrogen Peroxide			
Peroxide Check™ (H ₂ O ₂)	480014	0, 0.5, 2.0, 5.0, 10, 25, 50, 100 ppm (mg/L)	50
Peroxide Check™, Low Range*	481015	0.05, 0.3, 0.5, 1.0, 2.0, 4.0 ppm (mg/L)	50
Peroxide Check™, High Range*	481116	0, 200, 400, 800, 1600, 2500, 5000, 10000, 30000 ppm (mg/L)	30
Hydrogen Sulfide			
Hydrogen Sulfide Low Range	481197-20	0, 0.3, 0.5, 1.0, 2.0 ppm (mg/L)	
Hydrogen Sulfide	481197-1	0, 5, 10, 20, 30, 40, 50, 60, 80 ppm (mg/L)	
Hydrogen Sulfide Ultra-Low	481201	Method A <0.005, 0.01, 0.02, 0.03, 0.05, 0.075, 0.1, 0.2 Method B <0.05, 0.05, 0.075, 0.1, 0.2, 0.25, 0.3, 1.0 ppm (mg/L)	
Iodine			
Iodine*	480018	Method A 0, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 Method B 0.0, 0.02, 0.05, 0.10, 0.20, 0.30, 0.40, 0.5, 1.0, 2.0, 3.0, 4.0, 5.0 ppm (mg/L)	
Iodine Check High	480064	0, 5, 10, 15, 20, 30, 40, 50, 75, 100, 150, 200, 250, 300 ppm (mg/L)	
Nitrate/Nitrite			
Nitrate and Nitrite	480009	NO3: 0, 0.5, 2, 5, 10, 20, 50 NO2: 0.15, 0.3, 1, 1.5, 3, 10 ppm (mg/L)	
Ozone			
Ozone Check*	481234	0, 0.05, 0.1, 0.2, 0.3, 0.4, >0.5 ppm (mg/L)	50
Total Hardness			
Total Hardness	480008	0, 40, 80, 120, 180, 250, 425, 1000 ppm (mg/L) OR: 0, 2, 5, 7, 11, 15, 25, 58 gpg	50
pH			
Extended Range pH Check	481104	2, 3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12	50
pH / Total Alkalinity	480005	pH: 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0 TA: 0, 40, 80, 120, 180, 240, 360 ppm (mg/L)	50

MADE IN THE USA

All our products follow good manufacturing procedures that meet the highest quality specifications backed up by our satisfaction guarantee