

# eXact<sup>®</sup> MICRO 7+

The new eXact<sup>®</sup> Micro 7+ Advanced Photometer from Industrial Test Systems, Inc. (ITS) is the perfect meter for all your water quality testing needs. No visual color matching required means the eXact<sup>®</sup> Micro 7+ takes the guesswork out of water testing.

- **Direct read parameters:** Total Alkalinity, Bromine, Calcium Hardness, Free Chlorine, Total Chlorine, Copper, Ozone, pH
- **USEPA and Health Department compliant for Free & Total Chlorine** (contact your local health department for details)
- **Easy-to-use eXact<sup>®</sup> Strip/Photometer reagent delivery system** (US Patent #7,333,194 and #7,491,546, South Africa Patent #2007/0628 ) delivers reagents safely without the need to count drops or crush tablets
- **0.01 ppm (mg/L) precision with no visual color matching required**
- **Waterproof meter (IP-67) and it floats**
- **5-Year warranty with satisfaction guarantee**
- **Automatic test timer & 140 test memory** (saves last 20 tests per menu)
- **No-slip grip housing and simple 3-button control**
- **Lightweight** (weighs only 6 oz with batteries installed)
- **Environmentally friendly** (recyclable parts and uses 60% less reagents than 10mL sample tests)
- **Tests 29 additional parameters in Transmission Mode** (Visit [www.sensafe.com](http://www.sensafe.com) for details)
- **Startup Kit (486691-K) includes reagents for all direct read tests packed in a convenient foam-lined carrying case.**

For more information about this and our complete line of test strips, reagent and water quality testing devices, please call or email as listed below.

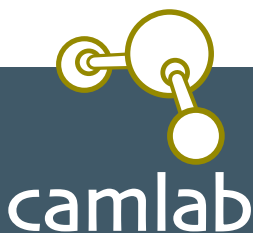


**WATERPROOF  
(IP-67)**



## TECHNICAL SPECIFICATIONS:

<b>Measurement Method:</b>	Photometric Light Source: Light Emitting Diode (LED)
<b>Wavelength:</b>	525 nm
<b>Memory:</b>	20 tests per menu; 140 total
<b>Programmed Tests:</b>	Total Alkalinity, Bromine, Calcium Hardness, Free Chlorine, Total Chlorine, Copper, Ozone, Permanganate, pH
<b>Transmission Mode Tests:</b>	Ammonia, Chloride, Chlorine Dioxide, Chromium Hex, Cyanuric Acid, Fluoride, Hydrazine, Hydrogen Peroxide (LR, MR or HR), Iodine, Iron, Total Iron, LR Total Hardness, Magnesium, Manganese, Molybdate, Nitrate, Nitrite, Peracetic Acid, Acid pH, Alkali pH, BT pH, Phosphate, Potassium, Sulfate, Sulfide, Turbidity
<b>Transmission Range:</b>	100 - 0.00 %T
<b>Photometric Precision:</b>	+/- 0.1/0.01 %T
<b>Automatic Range Selection:</b>	Displays 0.01 or 0.1 resolution automatically
<b>Display:</b>	3-digit customized liquid crystal display with annunciators
<b>Cell Pathlength:</b>	20mm
<b>Cell Chamber:</b>	Custom-molded, proprietary, PET plastic fused into chamber, non-removable
<b>Sample Required:</b>	4 mL (0.13 oz)
<b>Reagent System:</b>	Utilizes patented eXact <sup>®</sup> Strip Micro reagent delivery system
<b>Operating Temperature Range:</b>	0 - 50°C (32° - 122°F)
<b>Power Supply:</b>	(4) AAA alkaline batteries ( <b>not included</b> )
<b>Battery Life:</b>	>2000 tests with alkaline batteries
<b>Electromagnetic Compliance (EMC):</b>	Emitted Interference - EN 61326; Immunity to Interference - EN 61326
<b>Waterproof Rating:</b>	Exceeds IP67
<b>Instrument Weight:</b>	140 g (5 oz)
<b>Instrument Dimensions:</b>	5 (W) x 3.5 (D) x 16.5 (H) cm; (2 x 1.4 x 6.375 in)
<b>Government Compliance:</b>	European CE Mark and USEPA Compliance for Free/Total Chlorine



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# eXact® Strip Micro 7+ Reagent Reorder Information

eXact® Strip Micro (4mL) Reagent Specifications - For use with eXact® Micro 7+, Part no. 486691

No.	PARAMETER	PART NO.	# OF TESTS	DETECTION RANGE	CHEMISTRY
	eXact® Micro Carrying Case w/ foam	486001	N/A	N/A	N/A
	Dilution Kit	487200	N/A	N/A	N/A
	Reference Standard	486602	15	N/A	N/A
1	Alkalinity, Total	486641	100	20 - 180 ppm	Alizarin Red S + Citrate
2	Bromine (DPD-1)	486637	100	0.01 - 9.0 ppm	DPD
3	Calcium (as CaCO <sub>3</sub> )	486629	50	20 - 990 ppm	Oxalic Acid
4	Chlorine, Free (DPD-1)	486637	100	0.01 - 11.0 ppm	DPD
	Chlorine, Free (DPD-1)	484051	100 Foils	0.01 - 11.0 ppm	DPD
5	Chlorine, Total (DPD-3)**	486638	100	0.01 - 11.0 ppm	KI
6	Chlorine, Total (DPD-4)	486670	100	0.01 - 11.0 ppm	DPD + KI
	Chlorine, Total (DPD-4)	484054	100 Foils	0.01 - 11.0 ppm	DPD + KI
7	Copper (Cu <sup>2+</sup> )	486632	50	0.00 - 8.0 ppm	Biquinoline
8	Ozone (DPD-4)	486670	100	0.01 - 11.0 ppm	DPD + KI
9	Permanganate (DPD-1)	486637	100	0.01 - 4.5 ppm	DPD
10	pH	486639	100	6.2 - 8.4 pH	Phenol Red
11	Ammonia (as NH <sub>3</sub> /NH <sub>4</sub> <sup>+</sup> )*	483343-M	25	0 - 7 ppm	Salicylate Method
12	Chloride (as NaCl)*	481657	25	3 - 285 ppm	Silver (ppt)
13	Chlorine Dioxide (DPD-1)*	486637	100	0.03 - 6.5 ppm	DPD
14	Chromate (Chromium)*	486614	50	0.02 - 4.89 ppm	Diphenylcarbazide
15	Cyanuric Acid*	481652	130	5 - 60 ppm	Melamine (ppt)
16	Fluoride (as F <sup>-</sup> )*	486643	25	0.1 - 1.1 ppm	SPADNS
17	Hydrazine*	486649	50	0 - 2.5 ppm	4-Dimethylaminocinnamaldehyde
18	Hydrogen Peroxide LR*	486616	50	0.01 - 4 ppm	DPD + PO <sub>4</sub> + MoO <sub>4</sub> + KI
19	Hydrogen Peroxide MR*	486648	50	0 - 42 ppm	DPD + MoO <sub>4</sub> + KI + acid
20	Hydrogen Peroxide HR (DPD-4)*	486670	100	0 - 2100 ppm	DPD + KI
21	Iodine (DPD-1)*	486637	100	0.00 - 11.9 ppm	DPD
22	Iron, Ferrous (Fe <sup>2+</sup> )*	486631	50	0.03 - 3.8 ppm	TPTZ
23	Total Iron, TPTZ (Fe <sup>2+</sup> /Fe <sup>3+</sup> )*	486650	50	0.03 - 3.8 ppm	TPTZ + PP
24	Total Iron, Ferro (Fe <sup>2+</sup> /Fe <sup>3+</sup> )*	481623	50	0.15 - 3.5 ppm	1,10 Phenanthroline
25	LR Total Hardness (as CaCO <sub>3</sub> )*	486630	100	2 - 77 ppm	Phthalein Purple
26	Magnesium (as Mg <sup>2+</sup> )*	486647	50	0 - 130 ppm	Ammonium Phosphate (ppt)
27	Manganese (as Mn <sup>2+</sup> )*	486606	24	0.03 - 1.5 ppm	PAN + Cyanide
28	Molybdate (as MoO <sub>4</sub> )*	486653	50	0.04 - 2.3 ppm	Alizarin Red S + Buffer
29	Nitrate (as NO <sub>3</sub> <sup>-</sup> )*	486617	50	13 - 140 ppm	Zinc Reduction
30	Nitrite (as NO <sub>2</sub> <sup>-</sup> )*	486623	50	0.05 - 3.5 ppm	Chromotropic Acid
31	Peracetic Acid (PAA) (DPD-4)*	486670	100	0 - 4 ppm	DPD + KI
32	pH, Acid*	486624	50	3.0 - 6.2 pH	Alizarin Red S
33	pH, Alkali*	486609	50	8.3 - 9.6 pH	Thymol Blue
34	pH, BT*	486652	100	5.9 - 9.0 pH	Bromothymol Blue and Thymol Blue
35	Phosphate*	486814	50	0.03 - 4.00 ppm	Molybdate Method
36	Potassium (as K <sup>+</sup> )*	486621	50	3.1 - 11.8 ppm	Tetraphenylborate
37	Protein (as BSA)*	486620	50	0.3 - 16.0 mg/L	Sulfosalicylic Acid
38	Sulfate (as SO <sub>4</sub> <sup>2-</sup> )*	486608	50	0 - 150 ppm	Barium (ppt)
39	Sulfide (as H <sub>2</sub> S)*	486646	50	0.1 - 13 ppm	NPS
40	Turbidity* (as transmission)	None	No Reagent	3 - 580 NTU	Turbidity values as NTU

\* Results utilize the Tr-7 (Transmission) meter function and require the use of a conversion table. See respective test procedures for more information and tables.

\*\* Total Chlorine DPD-3 Test requires Free Chlorine DPD-1 (486637) to be run first.

NOTE: Because most of our products are test strips or use reagents that have little or no hazard in the quantity sold, MSDS sheets are not supplied with the test. The exceptions are the Manganese (486606) test, which comes with 2 strips and one liquid reagent (PAN); Fluoride (486643) test, which is a liquid reagent (SPADNS), and Iron (481623) test, which is a powder reagent. Hydrazine (486649) uses a liquid and strip. If your required procedure is not listed in this manual, please see the back page for our contact information.

**To ensure optimal performance, store your eXact® kit in a cool, dry place away from excess heat (below 100°F / 38°C), moisture, and oxidizers such as Chlorine and Bromine.**