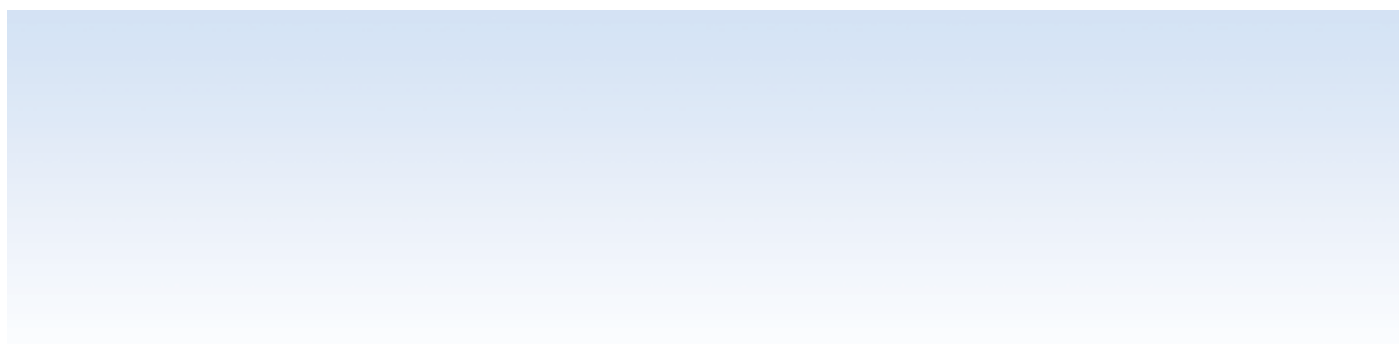
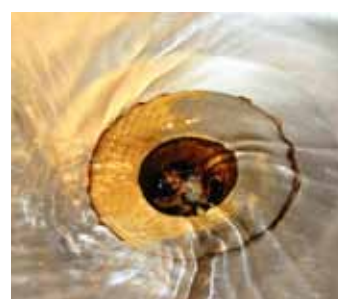


## Water Test Brochure



Palintest is a world leader in water analysis technology. We design, manufacture and supply a full range of high performance products for monitoring water quality in a wide range of applications.

Palintest products are used in drinking water, waste water and swimming pool water testing applications. Our range of precision instruments and easy-to-use reagents were developed specifically to meet the needs of worldwide standards. We also supply products for the industrial and process water sectors, soil testing and water disinfection. Products are manufactured at our HQ in the UK and sold through our branches in the USA, Australia, Middle East and China along with our extensive distributor network.

Palintest is a member of the following organisations:-



**Water Monitoring Association**



**American Water Works Association**



**Water Environment Federation**



**Australian Water Association**

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# UV-Vis Spectrophotometry

## 9100 UV-Vis Spectrophotometer

UV-Vis spectroscopy from Palintest Ltd utilises the full range of formulated applications for drinking water, wastewater and industrial process applications



The Palintest 9100 UV-Vis Spectrophotometer provides the full power of spectroscopic analysis with the convenience of the Palintest range of prepared tablet and liquid reagents. Designed to operate in stand-alone mode or controlled via dedicated software, the Palintest 9100 UV-Vis Spectrophotometer delivers superior technical performance within a compact footprint.

Supplied complete with all required accessories, the spectrophotometer is operating and reporting accurate and reliable data within minutes. The Palintest reagent calibration data is automatically loaded either via the software or the program card/PCMA slot.

## Technical Specifications

Optical System	Split beam
Wavelength Range	190 – 1100nm
Wavelength Accuracy	±1.0nm
Wavelength Reproducibility	≤ 0.2nm
Spectral Bandwidth	2 nm
Interface Options	PC via RS232 interface Multi function instrument keypad PCMA program card
Dimensions	476 x 362 x 225mm
Weight	11kg
Voltage	95 - 230V AC



## Ordering Information

### **PT 9100**

### ***Palintest 9100 UV-Vis Spectrophotometer Set***

Palintest 9100 UV-Vis Spectrophotometer  
Motorized 8-cell changer  
Fixed cell holder  
PCMA program card  
RS 232 cable  
Palintest Spectrophotometer Software (requires activation code)  
Two square cells  
Five round cells  
Crushing rods  
Lint free cloths  
Stopwatch  
Manuals and validation certificates

# Multi-Parameter Photometers

## Photometer 8000

The Photometer 8000 sets a new standard for water quality testing and ease of operation. It is designed to provide accurate and fast analysis for even the busiest test laboratories. Covering the full range of tests for clean water and wastewater, it is compatible with all Palintest tablet and liquid photometer tests :-

- Full range of pre-programmed tests
- Automatic method and wavelength set-up
- Touch screen with language selection
- Advanced optics technology with high sensitivity
- 1000 test results stored on-board
- Unique adaptive cell holder
- Remote software update by e-mail



## Ordering Information

PT 800 Photometer 8000 Kit

Includes Photometer 8000 instrument and power supply. Reagents are sold separately.

PT 802 Check Standards with Test Certificate

PT 803 Optional Hard Carrying Case

PT 595/5 Round Test Tubes, 10 ml, Pack of 5

## Technical Specifications

Analytical Method	Photometric
Wavelengths	420nm, 500nm, 550nm, 575nm, 600nm and 650nm
Internal Memory	1000 sample results stored with selective recall
Data Output	USB interface
Power	Standard mains power, optional battery power through standard 'AA' batteries
Size	290 x 240 x 90 mm
Weight	1648g



# Multi-Parameter Photometers

## Photometer 7500

The Palintest Photometer 7500 takes portable water testing to new heights. The instrument offers a well engineered specification and high performance :-

- Fully waterproof with IP67 rating
- Rugged, portable design with no moving parts
- Automatic method set-up for each parameter
- USB port for easy computer interface and power
- 500 test results stored on-board
- Unique adaptive cell holder



## Technical Specifications

Analytical Method	Photometric
Wavelengths	450nm, 500nm, 550nm, 570nm, 600nm and 650nm
Internal Memory	500 sample results stored with selective recall
Data Output	Waterproof USB interface
Power	Standard mains power, optional battery power through standard 'AA' batteries
Size	146 x 275 x 75 mm
Weight	975g
Instrument Rating	Waterproof IP67



## Ordering Information

### PT 750 Standard Photometer 7500 Kit

The Standard Photometer 7500 kit comprises a Photometer 7500 instrument, USB lead, eight glass test tubes and a starter supply of components, all contained in a moulded carrying case. There is space to hold up to eight reagent starter packs. Reagents are sold separately.

### PT 752 Engineer's Photometer 7500 Kit

The Engineer's Photometer 7500 kit is specifically designed for the mobile water service engineer. It contains a Photometer 7500 instrument, eight glass test tubes, a de-ion pack (de-ionised water maker), a dilution tube, a sample container, filtration equipment and a thermometer.

The kit is supplied in a reinforced carrying case with space to hold up to 15 different reagent starter packs.

### PT 804 Check Standards with Test Certificate

# Multi-Parameter Photometers

## Photometer 7100

The Photometer 7100 is fully integrated with the Palintest system of water analysis. It offers great value instrumental analysis for an extensive range of water tests :-

- Fully waterproof with IP67 rating
- Rugged, portable design with no moving parts
- Automatic method set-up for each parameter
- Unique adaptive cell holder



## Technical Specifications

Analytical Method	Photometric
Wavelengths	450nm, 500nm, 550nm, 570nm, 600nm and 650nm
Power	Battery power through standard AA batteries
Size	146 x 275 x 75 mm
Weight	975g
Protection Rating	Waterproof IP67



## Ordering Information

### PT 740 Standard Photometer 7100 Kit

The Standard Photometer 7100 kit comprises a Photometer 7100 instrument, six glass test tubes and a dilution tube, all contained in a moulded carrying case. There is space to hold up to four reagent starter packs. Reagents sold separately.

### PT 742 Engineer's Photometer 7100 Kit

The Engineer's Photometer 7100 kit contains a Photometer 7100 instrument, eight glass test tubes, a de-ion pack (de-ionised water maker), a dilution tube and a sample container. The kit is supplied in a robust carrying case with space to hold up to 15 different reagent starter packs. Reagents sold separately.

### PT 804 Check Standards with Test Certificate




# Multi - Parameter Photometer Comparison Table

Features	Photometer 7100	Photometer 7500	Photometer 8000
Adaptive cell holder automatically adjusts to tube size	•	•	•
Instrument interface languages	6	6	5
Sample ID	10 digit	10 digit	Alphanumeric
Blank once for all wavelengths	•	•	•
Automatic wavelength selection	•	•	•
Single touch method set-up	•	•	•
Large easy-to-read backlit display	•	•	•
Select tests by direct entry or from list	•	•	•
Remembers most recent test parameters	•	•	•
Self-monitoring optics	•	•	•
No warm-up time, quick to read	•	•	•
Fully waterproof, IP67 rated	•	•	
Can be powered from USB port		•	
Easy to navigate menu system	•	•	•
Power saving design for optimum battery life	•	•	•
Runs on 'AA' batteries	•	•	•
Rugged, portable design	•	•	•
Easy to clean cell holder	•	•	•
Drag and drop software update via USB		•	
User-selectable reporting units		•	•
User-defined test methods	-	30	50
Easy-to-use USB computer interface		•	
Test results with date/stamp time	-	500	1000
View results on log screen		•	•
Lockable system settings		•	•
User-selectable date format			•
Barcode reader for Tubetests™			•
Unique light lensing system compensates for optical imperfection			•
Interface touch screen			•
Multi- user personalisation/protection			•
Remote control from computer			•
Sample by sample, batch results upload			•
Mains power option			•

# Photometer Reagents

TEST	RANGE (ppm/ mg/l)	REAGENT REFILL PACKS (50 TESTS)	REAGENT REFILL PACKS (250 TESTS)
Alkalinity Total (Alkaphot™)	0 - 500 CaCO <sub>3</sub>	PM 188	AP 188
Alkalinity M (Alkaphot™ M)	0 - 500 CaCO <sub>3</sub>	PM 250	AP 250
Alkalinity P (Alkaphot™ P)	0 - 500 CaCO <sub>3</sub>	PM 251	AP 251
Aluminium	0.02 - 0.5	PM 166	AP 166
Ammonia	0.01 - 1.0 (N)	PM 152	AP 152
Bromine	0.04 - 10.0	PM 060	AP 060
Calcium Hardness (Calcicol™)	5 - 500 CaCO <sub>3</sub>	PM 252	AP 252
Chloride (Chloridol)	0.4 - 50,000 (NaCl)	PM 268	AP 268
Chlorine DPD No 1	0.01 - 5.0	PM 011	AP 011
Chlorine DPD No 2	0.01 - 5.0	PM 021	AP 021
Chlorine DPD No 1 and 3	0.01 - 5.0	PM 031	AP 031
Chlorine DPD 4	0.01 - 5.0	PM 041	AP 041
Chlorine HR (High Range)	1 - 250	PM 162	AP 162
Chlorine Dioxide (DPD)	0.02 - 10	PM 052	AP 052
Chlorine Dioxide LR (Low Range)	0.03 - 2.5	PM 064	AP 064
Chlorine Dioxide HR (High Range)	0.45 - 20	PM 065	AP 065
Chromium (VI) (Chromicol)	0.02 - 1.0	PM 281	AP 281
Copper (Coppercol™) (Free, Combined and Total)	0.03 - 5.0	PM 186	AP 186
Copper (Free)	0.03 - 5.0	-	AP 187
Colour/Turbidity	10 - 500 (Hazen units)	PM 269	-
Cyanuric Acid	2 - 200	PM 087	AP 087
Dissolved Oxygen (0.8/vials)	0.02 - 0.8	PL 553†	-
Dissolved Oxygen (2.0/vials)	0.05 - 2.0	PL 503†	-
Dissolved Oxygen (20/vials)	0 - 20	PL 513†	-
Fluoride	0.1 - 1.5	PM 179	AP 179*
Hardness (Hardicol™)	5 - 500 (CaCO <sub>3</sub> )	PM 254	AP 254
Hydrazine	0.01 - 0.5	PM 103†	AP 103•
Hydrogen Peroxide LR	0.02 - 2.0	PM 104	AP 104
Hydrogen Peroxide HR	1 - 100	PM 105	AP 105
Iron LR	0.01 - 1.0	-	AP 155
Iron MR	0.02 - 5.0	PM 292	AP 292
Iron HR	0.05 - 10	PM 156	AP 156
Magnesium (Magnecol™)	2 - 100	PM 193	AP 193
Manganese	0.001 - 0.03	PM 173	AP 173
Manganese HR	0.01 - 5.0	PM 174	AP 174
Molybdate LR	0.2 - 20	PM 258	AP 258*



Molybdate HR	0.5 - 100	PM 175	AP 175
Nickel (Nickeltest)	0.12 - 10	PM 284	AP 284*
Nitrate (Nitratetest)	0.2 - 20 N	PM 163	AP 163*
Nitrite (Nitricol™)	0.01 - 0.5	PM 109	AP 109
Nitrite (Nitriphot)	10 - 1500 (NaNO <sub>2</sub> )	PM 260	AP 260
Organophosphonate (OP)	0.2 - 20 (PO <sub>4</sub> )	PM 262	AP 262
Ozone	0.01 - 2.0	PM 056	AP 056
pH (Phenol Red)	6.8 - 8.4	PM 130	AP 130
Phenol (Phenoltest)	0.07 - 5.0	PM 287	AP 287*
PHMB	2 - 100	PM 272	AP 272
Phosphate LR	0.03 - 4.0	PM 177	AP 177*
Phosphate HR	1 - 100	PM 114	AP 114
Potassium	0.5 - 12	PM 189	AP 189
Silica LR	0.02 - 4.0	PM 181	AP 181*
Silica HR	0.5 - 150	PM 290	AP 290*
Sulphate	5 - 200	PM 154	AP 154
Sulphide	0.01 - 0.5	PM 168	AP 168*
Sulphite (Sulphitest)	5 - 500 (Na <sub>2</sub> SO <sub>3</sub> )	PM 266	AP 266
Zinc	0.02 - 4.0	PM 148	AP 148

\*200 tests    • 150 tests    † 30 tests

## Specialist DPD and Other Reagents

TEST	TESTS	CODE
<b>DPD Liquid Reagents</b>		
DPD No 1 Liquid	100	AT 015
DPD No 3 Liquid	100	AT 035
Phenol Red Liquid	100	AT 137
<b>Supplementary Reagents</b>		
DPD Acidifying	250 Tablets	AT 052
DPD Neutralising	250 Tablets	AT 058
DPD Glycine	250 Tablets	AT 056
DPD Nitrite	250 Tablets	AT 060
Cu/Zn Dechlor	250 Tablets	AT 085
EDTA Tablets	250 Tablets	AT 090
Phosphate SR	250 Tablets	AT 116
Ammonia Conditioning Reagent	100 (approx)	AT 170
Citrate IR	250 Tablets	AT 294

# Tubetests™ - COD, Nutrients and Metals

## Ammonia Nitrate and Phosphate Tubetests™

CODE	DESCRIPTION	RANGE	NUMBER OF TESTS
PL 400	Ammonia/12N/50N (Indophenol Method)	0.15 - 12 and 0.7 - 50 mg/l (N)	25
PL 420	Ammonia/15N (Nessler Method)	0.06 - 15 mg/l (N)	25
PL 424	Ammonia/50N (Nessler Method)	0.5 - 50 mg/l (N)	25
PL 425	Ammonia/100N (Nessler Method)	1 - 100 mg/l (N)	25
PL 404	Nitrate/30N	0.3 - 30 mg/l N (or 0 - 150 mg/l NO <sub>3</sub> )	25
PL 408	Total Nitrogen/30N*	0.6 - 30 mg/l N	25
PL 412	Phosphate/12P	0.1 - 12 mg/l P (or 0.3 - 36 mg/l PO <sub>4</sub> )	25
PL 416	Total Phosphorus/12P	0.1 - 12 mg/l P	25

\*for use with PL 404

## Metals Tubetests™

CODE	DESCRIPTION	RANGE (mg/l - ppm)	NUMBER OF TESTS
PL 427	Copper	0.2 - 20 mg/l Cu	25
PL 430	Nickel	0.3 - 20 mg/l Ni	25
PL 434	Iron	0.3 - 25 mg/l Fe	25
PL 442	Zinc	0.1 - 7/0.5 - 35 mg/l Zn	25
PL 436	Total Chromium	0.2 - 10 mg/l Cr	25
PL 440	Hexavalent Chromium (VI)	0.1 - 10 mg/l Cr	25

## Chemical Oxygen Demand

CODE	DESCRIPTION (25 tests per carton)	RANGE (mg/l - ppm)	NUMBER OF TESTS
PL 450	COD/150 Tubetests™/Mercury Free	5 - 150	25
PL 460	COD/150/M Tubetests™ with Mercury	5 - 150	25
PL 461	COD/150/2M Tubetests™ High Chloride	5 - 150	25
PL 481	COD/150 M/C Tubetests™ with Mercury	5 - 150	25
PL 452	COD/400 Tubetests™/Mercury Free	20 - 400	25
PL 462	COD/400/M Tubetests™ with Mercury	20 - 400	25
PL 453	COD/1000 Tubetests™/Mercury Free	10 - 1,000	25
PL 463	COD/1000/M Tubetests™/Mercury Free	10 - 1,000	25
PL 468	COD/1000/2M Tubetests™/Mercury Free	10 - 1,000	25
PL 484	COD/1,500 M/C Tubetests™ with Mercury	50 - 1,500	25
PL 454	COD/2,000 Tubetests™/Mercury Free	50 - 2,000	25
PL 464	COD/2,000/M Tubetests™ with Mercury	50 - 2,000	25
PL 465	COD/2,000/2M Tubetests™ High Chloride	50 - 2,000	25
PL 486	COD/15,000 M/C Tubetests™ with Mercury	500 - 15,000	25
PL 456	COD/20,000 Tubetests™/Mercury Free	500 - 20,000	25
PL 466	COD/20,000/M Tubetests™ with Mercury	500 - 20,000	25
PL 467	COD/20,000/2M Tubetests™ High Chloride	500 - 20,000	25

The Tubetests™ range of tests covers the principal parameters needed for environmental control of waters, effluents and wastewaters and for the testing of agricultural run-off and leachate from landfill sites.

Chemical Oxygen Demand (COD) is a vital test for assessing the quality of effluents and wastewaters prior to discharge. The COD test predicts the oxygen requirement of the effluent and is used for the monitoring and control of discharges, and for assessing treatment plant performance.



## Accessories

### Ancillary Apparatus

PT 589 - Tubetests™ Heater (inc safety screen)

PT 592 - Palintest High Spec Heater Block  
(UK, US and Euro adaptor available)

PT 596 - COD Laboratory Set  
(COD Heater, Pipettor, Tubetest Rack,  
Thermometer, Tube Adaptor)



### Instrument Accessories

PT 746 - Photometer Computer Cable

### Glassware and Sample Containers

PT 595/5 - Glass Tubes (Pack of 5)

PT 524/5 - Plastic Photometer Tubes (Pack of 5)

### Laboratory Consumables

PT 259 - Battery, Lithium, 9V

PT 501 - Test Tube Rack



# Single - Parameter Photometers

## Compact Photometer Range

In the field of water management and control, it is often useful to have a dedicated instrument for specific parameters. The Palintest compact range offers simple to use direct-reading, single parameter instruments. All variants are available in hard (PTH codes) and soft (PTS codes) carry case kits.

### Chlorometer

PTH 045D, PTS 045D

Chlorine DPD (No 1 + 3), 0.01 - 5.0 ppm

The new Palintest Chlorometer offers a new dimension in chlorine testing. Used in conjunction with the DPD standard method developed by Palintest, it provides a level of simplicity and accuracy unrivalled in a portable hand-held instrument.



### Ozone Meter

PTH 043, PTS 043

Ozone, 0.01 - 3.0 ppm

The new Palintest Ozone Meter provides a simple means of measuring ozone residuals, up to a level of 3.0 ppm.

### Chlorometer Duo

PTH 027, PTS 027

Chlorine DPD (No 1 + 3), 0.01 - 5.0 ppm

Chlorine High Range, 1 - 250 ppm

The Chlorometer Duo offers the ideal solution for standard and high range chlorine testing. The photometer is easy to use and provides convenient and accurate confirmation of both high-level disinfectant and low-level residual chlorine levels.

## Technical Specifications

Analytical Method	Photometric
Power Supply	2 'AA' batteries. Auto switch-off setting.
Internal Memory	10 results stored
Size	150 x 65 x 40 mm
Weight	200g (including batteries)
Protection Rating	Waterproof IP67

### ClO<sub>2</sub>+

PTH 046, PTS 046

Chlorine DPD (No 1 + 3), 0.01 - 5.0 ppm

Chlorine Dioxide, 0.02 - 10 ppm

The ClO<sub>2</sub>+ is a new addition to the Palintest Compact Range, testing for both Chlorine and Chlorine Dioxide with a level of simplicity and accuracy unrivalled in a portable hand-held instrument.

# Single - Parameter Photometers

## Ammonia Meter

PTH 040, PTS 040

Ammonia, 0.06 - 15.0 ppm (N)

Ammonia, 0.5 - 50.0 ppm (N)

Ammonia, 1.0 - 100 ppm (N)

The Palintest Ammonia meter is a precision dual range Photometer for measuring Ammonia concentration in water. The meter is used in conjunction with the Tubetests™ Nessler reagent.



## Compact Photometer Kits

### Hard Carry Case



### Soft Carry Case



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## ....other single parameter photometers include

Bromometer Duo

Bromine, 0.04 - 10.0 ppm

Chlordiox Duo

Chlorine Dioxide, 1 - 250 ppm

Ferrometer

Iron MR, 0.02 - 5 ppm

Molybdate Duo Meter

Molybdate LR, 0.2 - 15.0 ppm

Molybdate HR, 0.5 - 100.0 ppm

# Sensor Technology

**NEW**

## ChlordioX™ Plus

The ChlordioX™ Plus uses unique sensor technology for determining chlorine dioxide, free chlorine and chlorite.

The ChlordioX™ Plus features:

- Simple operation for all levels of users
- Wide operating ranges for all parameters
- No interference from sample solids or colour
- Superior analytical performance compared to DPD or Lissamine Green methods

The instrument uses patented disposable sensor technology and a unique sequential method to measure Free Chlorine, Chlorine Dioxide and Chlorite across a range of applications including drinking water and produce washing.

### Technical Specifications

Analytical Method	Patented disposable electrode sensor method
Power	Battery power (4 x 'AA'), optional power through USB port
Size	Instrument only 170 x 126 x 116 mm
Weight	985g
Instrument Rating	Waterproof IP67
<b>Range</b>	
Chlorine Dioxide	0.02 – 50 mg/l
Free Chlorine	0.02 – 10 mg/l
Chlorite	0.02 – 50 mg/l



### Ordering Information

CS 400 - ChlordioX™ Plus  
(includes a starter supply of sensors and accessories)

CS 110 - Pack of 100 Replacement  
ChloroSense® Sensors

CS 150 - Pack of 500 Replacement  
ChloroSense® Sensors

CDX 310 - Pack of 100 Replacement  
ChlordioX™ Sensors

CDX 350 - Pack of 500 Replacement  
ChlordioX™ Sensors

CS 190 - ChlordioX™ Check  
Standards

PT 546 - ChlordioX™ Plus CR 1 Reagent

PT 547 - ChlordioX™ Plus CR 2 Reagent

PT 549 - Glycine Solution



# Sensor Technology

## ChloroSense®

The revolutionary ChloroSense® from Palintest is a unique sensor system developed specifically for measuring free and total chlorine :-

- Waterproof, rugged and portable
- Wide analytical range
- Patented electrode technology
- No reagents required
- USB port for easy computer connection.

Designed for field analysis, the waterproof rugged unit is easy to carry to any monitoring site, and requires no chemical reagents.

Free and total chlorine measurements are carried out simultaneously in around 55 seconds and a digital readout gives both readings, which are also stored in the data log for later uploading to computer via the USB port.



## Technical Specifications

Analytical Method	Patented disposable electrode sensor method
Power	Battery power (4 x 'AA') - optional power through USB port
Size	Instrument only 170 x 126 x 116 mm
Weight	985g
Instrument Rating	Waterproof IP67
<b>Range</b>	
Free Chlorine	0.02 – 10.0 mg/l
Total Chlorine	0.05 – 100 mg/l

## Ordering Information

- CS 100 - ChloroSense® Kit  
(includes 100 sensors, calibration chip, sample bottles and soft carry case)
- CS 110 - Pack of 100 Replacement ChloroSense® Sensors
- CS 150 - Pack of 500 Replacement ChloroSense® Sensors
- CS 180 - ChloroSense® Check Standards

# Sensor Technology

## ChlordioXense

The ChlordioXense builds on the success of the ChloroSense® and uses similar sensor technology to measure chlorine dioxide.

The Palintest ChlordioXense is a precision instrument that offers a simple, rapid, reagent-free method of analysing water for chlorine dioxide, removing almost all sources of technique dependence.

- Simple and easy to use
- Superior performance compared to Lissamine Green
- Wide test range, from 0.02 - 50 mg/l
- Patented sensor technology.



## Technical Specifications

Analytical Method	Patented disposable electrode sensor method
Power	Battery power (4 x 'AA') - optional power through USB port
Size	Instrument only 170 x 126 x 116 mm
Weight	985g
Instrument Rating	Waterproof IP67
<b>Range</b>	
Chlorine Dioxide	0.02 - 50 mg/l

## Ordering Information

- CS 300 - ChlordioXense (includes 100 sensors, calibration chip, sample bottles and soft carry case)
- CDX 310 - Pack of 100 Replacement ChlordioX™ Sensors
- CDX 350 - Pack of 500 Replacement ChlordioX™ Sensors
- CS 190 - ChlordioX™ Check Standards
- PT 549 - Glycine Reagent

# Sensor Technology

## SA1100 Scanning Analyzer

The Palintest SA1100 provides simple and reliable monitoring for lead or copper in water.

Utilising the long established voltammetric method of analysis with a unique disposable sensor system the Palintest SA1100 offers field or lab based analysis with excellent accuracy and resolution.

Developed from our Palintest SA-1000 system, the standard instrument for lead and copper testing in water, the Palintest SA1100 is simplicity itself. Weighing only 985g and completely waterproof, the instrument is perfect for any environment.



### Technical Specifications

Analytical Method	Patented disposable electrode sensor method
Power	Battery power (4 x 'AA') - optional power through USB port
Data Logging	Stores 500 previous readings and offers prompts when 40 and 20 left
Size	Instrument only 170 x 126 x 116 mm
Weight	985g
Instrument Rating	Waterproof IP67
<b>Range</b>	
Lead	2 - 100 µg/l
Copper	50 - 2000 µg/l

### Ordering Information

- PT 430 - SA1100 Water Testing Kit for Lead
- PT 431 - SA1100 Water Testing Kit for Copper
- PT 435 - SA1100 Sensor Pack for Lead in Water (10 Tests)
- PT 436 - SA1100 Sensor Pack for Copper in Water (10 Tests)
- CS 640 - Check Standards with Test Certificate

# Electrochemical Instruments

The Palintest range of portable instruments includes pocket sensors and portable meters for pH, conductivity, total dissolved solids, turbidity and dissolved oxygen.

## PT 390 - Micro 950 Turbidimeter

The Micro 950 Waterproof Turbidimeter is a portable micro-processor controlled turbidity meter. Multiple measuring ranges are available, covering the range 0.01 to 1000 NTU making the instrument suitable for a wide range of applications including drinking water, and waste waters.



## PT 146 - Waterproof pH/Conductivity/TDS Meter

The meter can be used to measure pH, conductivity, TDS and temperature in all aqueous samples. The all purpose meter is suited to both field and laboratory use.



## PT 140 - Micro 500 pH Meter

The Palintest Micro 500 pH Meter combines pH and temperature measurement with millivolt readout for oxidation-reduction potential and specific ion electrodes.

## PT 151 - pH Pocket Sensor

Palintest Pocket pH Sensor is a simple to use microprocessor-based pocket sized instrument for checking the pH value of water and aqueous solutions.



# Electrochemical Instruments

## PT 144 - Micro 500 Conductivity Meter

## PT 159 - Conductivity Pocket Sensor LR

## PT 160 - Conductivity Pocket Sensor HR

## PT 153T - TDS/Temperature Pocket Sensor

Palintest Pocket TDS and Conductivity Sensors are simple to use pocket sized instruments for checking the total dissolved solids content or conductivity of water and aqueous solutions.



## PT 148 - Waterproof Dissolved Oxygen Meter

The Palintest Waterproof Dissolved Oxygen Meter is a state-of-the-art instrument for dissolved oxygen measurement. It is completely waterproof - it even floats!

The determination of dissolved oxygen is an important test for water. Typical applications include environmental monitoring of natural waters, fish farming, the control of sewage and effluent treatment plants and the laboratory measurement of BOD.



## Accessories

PT 105/8 Buffer Pack pH 7

PT 105/5 Buffer Pack pH 4 / 7 / 10

PT 105/4 Electrode Care Pack

PT 142/5 Standard TDS/Conductivity Solution

# Comparators

Palintest Comparators and Discs are a versatile method of water testing. Reliable for the professional analyst, quick and easy for the casual user.

The Palintest Comparator, with interchangeable colour discs, is so simple to use; just add the tablet reagent to the test sample, place in the comparator and match against the appropriate disc. Colour discs are available for a complete range of water test parameters.

Palintest discs are produced by the latest technology which enables the colours to be printed from a palette of over two million different shades. This ensures a perfect match against the colours produced in each test.

It is so easy to choose a water test kit to suit your application - whether it is just for one test parameter or for a dozen. First choose one of the two comparator kits (Standard or Deluxe - see below), then select the starter packs for the test you need. The kits and starter packs match up to make a complete test kit.



\* discs not included

## PT 220 - STANDARD COMPARATOR KIT

This kit contains a Palintest Comparator, four square test tubes and a dilution tube in a moulded plastic carrying case. There is space to hold up to four reagent starter packs. This kit does not contain reagents, which should be ordered separately.

## PT 225 - DELUXE COMPARATOR KIT

This kit contains a Palintest Comparator, six square test tubes, De-ion pack, deionised water maker, light unit with adaptor, dilution tube and sample container. There is space to hold up to 15 reagent starter packs. This kit does not contain reagents, which should be ordered separately.


## PT 520T - LOW COST COMPARATOR KIT

This kit includes a comparator and two square test tubes. This kit does not contain reagents, which should be ordered separately.

Palintest manufacture comparators for parameters from alkalinity to zinc.

You can find more information on our range at [www.palintest.com](http://www.palintest.com)





<b>CHLORINE DPD STARTER PACKS AND DISCS (for Free and Total Chlorine)</b>	<b>STARTER PACK (incl Disc) (50 DPD Nos 1 &amp; 3 Tablets)</b>	<b>DISC ONLY</b>	<b>RANGE</b>
Chlorine (DPD No 1 + No 3)	CM 031/1	CD 011/1	0 - 1.0 mg/l
Chlorine (DPD No 1 + No 3)	CM 031/2	CD 011/2	0 - 2.0 mg/l
Chlorine (DPD No 1 + No 3)	CM 031/5	CD 011/5	0 - 5.0 mg/l
<b>OTHER STARTER PACKS,DISCS AND ALL REPLACEMENT REAGENTS</b>	<b>STARTER PACK (incl Disc) 50 Tests</b>	<b>DISC ONLY</b>	<b>REAGENT REFILL PACKS 250 Tests</b>
Alkalinity (Alkavis™)	CM 192	CD 192	AK 192
Aluminium	CM 166	CD 166	AK 166
Ammonia	CM 152	CD 152	AK 152
Bromine	CM 060/2	CD 060/2	AK 060
Bromine	CM 060/8	CD 060/8	-
DPD No 1 Comp (250F)	-	-	AK 011
DPD No 2 Comp (250F)	-	-	AK 021
DPD No 1 and No 3 Comp (2x250F)	-	-	AK 031
DPD No 3 Comp (250F)	-	-	AK 031/1
DPD No 4 Comp (250F)	-	-	AK 041
Chlorine HR	CM 162/50	CD 162/50	AK 162
Chlorine HR	CM 162/250	CD 162/250	-
Copper (Coppercol™)	CM 186	CD 186	AK 186
Fluoride	CM 179	CD 179	AK 179
Hydrazine Powder	-	-	AK 103
Hydrogen Peroxide LR	CM 104	CD 104	AK 104
Hydrogen Peroxide HR	CM 105	CD 105	AK 105
Iron LR	-	-	AK 155
Iron MR	CM 292	CD 292	AK 292
Iron HR	-	-	AK 156
Manganese	CM 173	CD 173	AK 173
Molybdate	CM 175	CD 175	AK 175
Nitrate (Nitratetest)	CM 163	CD 163	AK 163
Nitrite (Nitricol™)	CM 109	CD 109	AK 109
Ozone	CM 056	CD 056	AK 056
pH (Phenol Red)	CM 131	CD 131	AK 131
Phosphate LR	CM 177	CD 177	AK 177
Phosphate HR	CM 114	CD 114	AK 114
Silica	CM 181	CD 181	AK 181
Sulphide	CM 168	CD 168	AK 168
Zinc	CM 148	CD 148	AK 148

# Tablet Count Kits

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Tablet Count kits provide an extremely simple method of analysis for an important range of water parameters. The tests are particularly useful for the routine control of industrial waters such as boiler waters and cooling water systems, as well as swimming pools, natural waters and similar applications.

## PT 210 - Standard Tablet Count Kit

Tablet count kits are available for parameters from Alkalinity to Tannin. Please visit [www.palintest.com](http://www.palintest.com) to find out more.



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# Drop Count Reagents

If your company is involved with industrial water treatment, you will know the importance of proper water testing. Water testing holds the key to your success. Simple, reliable on-site tests will help your clients stay in control. For you, that means good water conditions and a satisfied customer.

That's just what's on offer from the Palintest DC Series of industrial water test kits. Whether it's for boiler plant, cooling towers or chilled water systems, we provide kits you can offer to your clients with confidence. The Palintest method of modular assembly means that kits can be tailored to suit your precise requirements – designed for your system and own-branded with your company name.



For information on our tablet and drop count products and parameters visit: [www.palintest.com](http://www.palintest.com)





# Pocket Kits

Palintest Pocket kits provide an inexpensive range of simple-to-use test kits for individual test parameters. The pocket kits provide a quick check method for the most commonly carried out water tests. These kits, which are all based on tablet reagents, use a variety of test procedures - colour match methods using the unique Palintest 'TestCard' with transparent colour standards, tablet count and turbidity methods.

Pocket kits are particularly suitable for casual or occasional users where most other kits cannot be justified or where the precision of more sophisticated equipment is not required.

Palintest Pocket kits contain sufficient reagents for approximately 50 tests for the specified parameter. For more information on our pocket kits and to find a specific parameter, please visit [www.palintest.com](http://www.palintest.com).



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## Visual Tests

The Palintest system includes a number of tests based on other methods. These may be used as stand-alone tests or incorporated into test kits. These tests include sulphate and cyanuric acid which are each based on a turbidity method using a special double-tube assembly, organophosphonate using a micro-titration procedure, and a simplified permanganate value test using a multiple-tube technique.

Reagents for each of these tests are available both as starter packs and as replacement reagent packs. Packs contain sufficient reagents for 50 tests. The starter packs also contain the necessary equipment to allow the test to be used as a stand-alone method or incorporated into test kits. The permanganate value test must be used as a stand-alone method - the equipment will not fit into Standard or Deluxe test kits.

Test	Range	Starter Pack (50 Tests)	Replacement Pack (50 Tests)
Cyanuric Acid	20 - 100 mg/l	CP 087	AS 087
Organophosphonate	0.4 - 20 mg/l	CP 158	AS 158
Permanganate Value	0 - 30 (PV)	CP 113	AS 113
Sulphate	40 - 200 mg/l*	CP 154	AS 154

\* Range up to 3,000 mg/l using smaller sample

# Water Disinfection

Steadichlor™ tablets offer a simple and effective means of water chlorination without the need for complex dosing equipment. Steadichlor™ tablets dissolve in water to give a slow, steady chlorine release. The dissolving time is approximately 4 hours in flowing water or 12 - 24 hours in static water.

Instachlor™ PR tablets provide a convenient means of small-scale water chlorination. The tablets may be added directly to water containers, water tanks, wells or small reservoirs. The choice of Instachlor™ PR tablet will depend on the quantity of water to be treated. The tablets should be used in accordance with standard chlorination practice depending on the water to be treated and the purpose of treatment.



## Ordering Information

	Quantity	Available Chlorine Content	Product Code
<b>Instachlor™</b>			
Instachlor™ PR - 5	100	5 mg	WT 406
Instachlor™ PR - 40	250	40 mg	WT 415
Instachlor™ PR - 150	250	150 mg	WT 424
Instachlor™ PR - 1000	100	1 g	WT 442
Instachlor™ PR - 1000	300	1 g	WT 446
Instachlor™ PR - 3000	300	3 g	WT 448
<b>Steadichlor™</b>			
Steadichlor™ NS	2.5 kg (125 Tablets)		WT 122
Steadichlor™ NS	5 kg (250 Tablets)		WT 123

# Microbiological Testing

Drinking water supplies, swimming pools/spas are all regularly monitored for industrial waters and microbiological contamination. Palintest supplies a comprehensive range of products for these tests.

**Palintest TTC/M Dipslides** are a combination slide for the detection of bacteria, yeasts and moulds in fluids and on surfaces. These slides provide a simple means of enumerating these micro-organisms in industrial and environmental applications



	<b>Quantity</b>	<b>Product Code</b>
Palintest Dipslides TTC/M	pack of 10	PT 710
Palintest Dipslides TTC	pack of 10	PT 711

**Colitag** is a pre-dispensed dry blended reagent formulation containing specific indicator/nutrients for Total Coliform and E. coli. Total Coliform presence is indicated by a clear colour change and subsequent illumination with a UV lamp will confirm the presence of E.Coli.

	<b>Quantity</b>	<b>Product Code</b>
Colitag 100ml Presence/Absence Test	20	PT 220
Colitag 100ml Presence/Absence Test	100	PT 200
Lamp U/V Portable	-	CT 102
Sterile graduated containers	20	CT 104
Sterile graduated containers	100	CT 105

**Palintest's Incubator MV** is a compact multi-voltage incubator designed for general use in a laboratory and for use in a motor vehicle. It is ideally suited for use with Palintest's Coliform Testing System and Dipslides.

	<b>Product Code</b>
Incubator - Multi - Voltage	CT 109
Incubator - 240V	CT 111
Incubator Thermometer	PT 680

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