

# Palintest

Water Analysis Technologies



COMPACT METER RANGE

POOL AND SPA   **WASTEWATER**   **DRINKING WATER**   **PROCESS WATER**   SOIL

## About us

Palintest is a leading company in the design and manufacture of water analysis technologies, supplying a comprehensive range of precision instruments for multidisciplinary analysis.

### A global company with a local approach

•USA •UK •Middle East •China •Australia



## Application areas



### Drinking water

Test kits for water treatment and supply



### Soil and irrigation

Test kits for optimising crop yields



### Pool and spa

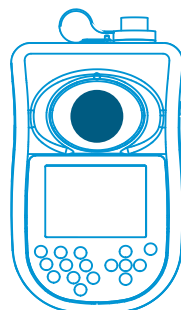
Kits for commercial and residential sectors



### Process industries

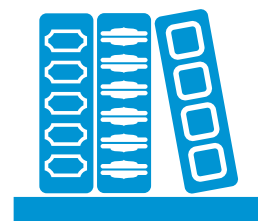
Test kits for industrial processes

## Product range



From multiparameter photometers to visual test kits. Palintest has a wide range of solutions for every application.

## Water testing library



Our online library contains research and insight surrounding our products and the applications they are used in.

## Analysing critical water quality parameters

We offer a wide range of instruments covering all critical water quality parameters. Our compact and portable instruments are ideal for providing the critical information required for drinking water, wastewater, environmental and process applications.

Our compact photometers utilise photometric and colormetric analysis, providing reliable results for a range of disinfectants and water quality indicators.

## Key benefits of Palintest hand-held meters:

### Stable and repeatable calibration

No need for frequent re-calibration

### Low detection limits

Measure even the slightest concentrations for key water quality parameters.

### Visible analysis

The colour may be visible to the naked eye but a photometer removes the subjectivity and provides a much more accurate reading.

## Photometer feature key



### Tablet icon

This instrument is compatible with tablet reagents.



### Tubetest icon

This instrument is compatible with liquid tubetests reagents.



### Liquid icon

This instrument is compatible with liquid reagents.



### USB icon

This instrument includes a data transfer function via USB.

# Compact Chlorometer

The Compact Chlorometer ensures accurate analysis of free, combined and total chlorine in a simple-to-use portable photometer.



Compact Chlorometer kit, soft case



Tablet reagents



Liquid reagents

The Compact Chlorometer is ideal for the field professional validating the safety of drinking water or wastewater disinfection.

Key features include:

- True chlorine calibration – results are calibrated against real chlorine samples for the most accurate result
- DPD method application – both tablet and liquid reagents are available to measure free chlorine, monochloramine, dichloramine and/or total chlorine up to 5 mg/L chlorine
- Two button operation – blank and read simply with a single button push.
- Data memory for the last 10 results.

Available in either a hard or soft case kit.

## Specification

Measuring System	Dual LED source, direct reading colorimeter
Ranges	0 – 5 mg/L Chlorine
Display	High clarity LCD with backlight
User Interface	Blank, read, function and power keys
Data Storage	Last 10 results
Size (W x L x H)	65 x 150 x 40mm
Weight	200 g (including batteries)
Power Supply	2 x AA batteries

## Product

PTS 045D Compact Chlorometer Kit, Soft Case	Compact Chlorometer, 2 sample tubes, sample tube brush, crush/stirring rods, 50 tests for free and total chlorine, instructions. Supplied in soft case with belt loop.
PTH 045D Compact Chlorometer Kit, Hard Case	Compact Chlorometer, 4 sample tubes, sample tube brush, crush/stirring rods, 100 tests for free and total chlorine, instructions. Supplied in hard case.

# Compact Chlorometer Duo

For true field versatility, the Compact Chlorometer Duo cannot be beaten, delivering dual range chlorine analysis for the widest variety of applications.

The Compact Chlorometer Duo offers the same benefits as the Compact Chlorometer with the addition of high range chlorine. Providing analysis for drinking water compliance as well as for process water applications with higher levels of chlorine.

Key features of the product include:

- Simple operation – blank or measure with a single button
- IP67 rated waterproof and battery powered, making it ideal for field use
- Measure chlorine up to 250 mg/L on one meter.
- Easy to use tablet reagents with long term stability for up to 10 years

Available in either a hard or soft case kit.



Tablet reagents



Liquid reagents



Compact Chlorometer Duo kit, hard case

## Specification

Measuring System	Dual LED source, direct reading colorimeter
Ranges	0 – 5 mg/L Chlorine 1 – 250 mg/L Chlorine
Display	High clarity LCD with backlight
User Interface	Blank, read, function and power keys
Data Storage	Last 10 results
Size (W x L x H)	65 x 150 x 40mm
Weight	200 g (including batteries)
Power Supply	2 x AA batteries

## Product

PTS 027 Compact Chlorometer Duo Kit, Soft Case	Compact Chlorometer Duo, 2 sample tubes, sample tube brush, crush/stirring rods, 20 tests for free and total chlorine, 20 tests for chlorine (high range), instructions. Supplied in soft case with belt loop.
PTH 027 Compact Chlorometer Duo Kit, Hard Case	Compact Chlorometer Duo, 4 sample tubes, sample tube brush, crush/stirring rods, 100 tests for free and total chlorine, 100 tests for chlorine (high range), instructions. Supplied in hard case.



# Compact ClO2+ Meter

The Compact ClO2+ meter provides field analysis of chlorine and chlorine dioxide using the DPD method.



The Compact ClO2+ meter, soft case



The original Palin system was designed for monitoring of all forms of chlorine. Dr Palin extended the method to measure alternative disinfectants such as chlorine dioxide – a powerful and increasingly popular biocide.

The Compact ClO2+ meter delivers the following features:

- User selection of chlorine or chlorine dioxide plus chlorite on a single instrument
- Simple tablet-based measurement methods for easy field analysis
- IP67 waterproof instrument for reliability in warm or humid environments.
- Intuitive and easy to use with only 4 buttons
- Accessories include the unique Neutral Density Filter (NDF) check standards for validation in the field.

Available in either a hard or soft case kit.

### Specification

Measuring System	Dual LED source, direct reading colorimeter
Ranges	0 – 5 mg/L Chlorine 0 – 10 mg/L Chlorine Dioxide
Display	High clarity LCD with backlight
User Interface	Blank, read, function and power keys
Data Storage	Last 10 results
Size (W x L x H)	65 x 150 x 40mm
Weight	200 g (including batteries)
Power Supply	2 x AA batteries

### Product

PTS 046 Compact ClO2+ Meter Kit, Soft Case	Compact ClO2+ Meter, 2 sample tubes, sample tube brush, crush/stirring rods, 50 DPD 1 tablets, 50 DPD 3 tablets, 50 DPD Glycine tablets, instructions. Supplied in a soft case with belt loop.
PTH 046 Compact ClO2+ Meter Kit, Hard Case	Compact ClO2+ Meter, 4 sample tubes, sample tube brush, crush/stirring rods, 200 tests for ozone, instructions. Supplied in a hard case.

# Compact Ozone Meter

The Compact Ozone meter provides ozone testing using the DPD method in a waterproof, portable instrument. Ideal for drinking water, wastewater treatment and bottled water production

Offering a wide dynamic range and a simple testing procedure, measuring ozone is a quick and easy process suitable for all. Wherever ozone is used as a disinfectant, the Compact Ozone meter is part of the control method.

Key features include:

- DPD tablet method – accurate, simple with long term stability
- Long sample tube pathlength for superb resolution at low levels
- Waterproof to IP67 and battery powered – take the Compact Ozone meter anywhere.
- Single tablet method with the option of correcting chlorine or bromine in the sample
- Accessories include the unique Neutral Density Filter (NDF) check standards for validation in the field.



The Compact Ozone meter, hard case

Available in either a hard or soft case kit.

### Specification

Measuring System	Dual LED source, direct reading colorimeter
Ranges	0 – 3 mg/L Ozone
Display	High clarity LCD with backlight
User Interface	Blank, read, function and power keys
Data Storage	Last 10 results
Size (W x L x H)	65 x 150 x 40mm
Weight	200 g (including batteries)
Power Supply	2 x AA batteries

### Product

PTS 043 Compact Ozone Meter Kit, Soft Case	Compact Ozone Meter, 2 sample tubes, sample tube brush, crush/stirring rods, 100 tests for ozone, instructions. Supplied in a soft case with belt loop.
PTH 043 Compact Ozone Meter Kit, Hard Case	Compact Ozone Meter, 4 sample tubes, sample tube brush, crush/stirring rods, 200 tests for ozone, instructions. Supplied in a hard case.

# Compact Ammonia + Meter

Portable ammonia and ammonium measurement by the Nessler method with a choice of operating ranges up to 100 mg/L.



Designed for wastewater and environmental monitoring the Compact Ammonia + Meter uses the Nessler method for ammonia measurement including a high range reagent ideal for ammonia monitoring in the nitrification process.

The Compact Ammonia + features:

- Rapid and accurate analysis with a well-established technique
- IP67 waterproof and battery powered instrument – ideal for field use
- Simple operation coupled with pre-formulated Tubetests reagents – suitable for all users

Supplied as either a hard or soft case kit the Compact Ammonia+ Meter is provided with a 2 year warranty and benefits from the full range of Palintest technical support. Tubetests sold separately.

### Specification

Measuring System	Single LED source, direct reading colorimeter
Ranges	0 – 15 mg/L N 0 – 50 mg/L N 0 – 100 mg/L N
Display	High clarity LCD with backlight
User Interface	Blank, read, function and power keys
Data Storage	Last 10 results
Size (W x L x H)	65 x 150 x 40mm
Weight	200 g (including batteries)
Power Supply	2 x AA batteries

### Contents

PTS 041 Compact Ammonia + Kit, Soft Case	Compact Ammonia + Meter, Tubetests Adaptor (PT 565), instruction manual. Supplied in a soft case with belt loop.
PTH 041 Compact Ammonia + Kit, Hard Case	Compact Ammonia + Meter, Tubetests Adaptor (PT 565), instruction manual. Supplied in a hard case.

# Compact Ammonia Duo Meter

Measure ammonia and ammonium in drinking water, wastewater or environmental samples with the widest choice of working ranges.

Perfect for any situation where ammonia monitoring is required, the Compact Ammonia Duo offers a choice of Nessler or Indophenol method analysis and reagent formats.

Among the features are:

- Simple method selection and automatic retention of the last method used
- Widest choice of operating ranges – from low range drinking water testing to high range wastewater levels in a single instrument
- Convenient reagents formats – choose either Tubetests or tablet reagents
- Kit includes the unique Neutral Density Filter (NDF) check standards for validation in the field.

Available in a soft case or hard case kit with all the components required to start testing immediately.



The Compact Ammonia Duo Meter, soft case



### Specification

Measuring System	Dual LED source, direct reading colorimeter
Ranges	0 – 1 mg/L N (Indophenol method, tablet reagent) 0 – 12 mg/L N (Indophenol Tubetests reagent) 0 – 50 mg/L N (Indophenol Tubetests reagent) 0 – 15 mg/L N (Nessler Tubetests reagent) 0 – 50 mg/L N (Nessler Tubetests reagent) 0 – 100 mg/L N (Nessler Tubetests reagent)
Display	High clarity LCD with backlight
User Interface	Blank, read, function and power keys
Data Storage	Last 10 results
Size (W x L x H)	65 x 150 x 40mm
Weight	200 g (including batteries)
Power Supply	2 x AA batteries
Contents	

PTS 042 Compact Ammonia Duo Kit, Soft Case	Compact Ammonia Duo Meter, Tubetests Adaptor (PT 565), 2 sample tubes, tube brush, crush/stirring rods, 50 tablet tests for ammonia, instruction manual. Supplied in a soft case with belt loop.
PTH 042 Compact Ammonia Duo Kit, Hard Case	Compact Ammonia Duo Meter, Tubetests Adaptor (PT 565), 4 sample tubes, tube brush, crush/stirring rods, 50 tablet tests for ammonia, instruction manual. Supplied in a hard case.



# Turbimeter Plus

The new Turbimeter Plus has been developed with leading water utility companies and provides the ideal testing platform for drinking water, wastewater and safe water monitoring.



USB data transfer

Turbidity and Total Suspended Solids (TSS) are two of the most important indicator parameters for water quality monitoring.

The Turbimeter Plus features:

- Fast and reliable results within 5 seconds
- Unique Quadoptix technology with four individual measurement points for increased reliability
- Specifically designed for field use with storage for 1000 results and battery power for approximately 10,000 tests
- Variety of operating and reading modes including TSS, Average and Continuous Capture
- USB connectivity for power, downloading data and installing software upgrades
- IP67 certified with a waterproof USB socket
- ISO 7027 compliant measurement of turbidity in drinking water, wastewater and surface water with Total Suspended Solids (TSS) capability.

### Specification

Measuring System	QuadoptiX™ optical system with two independent 860nm LED sources, ISO 7027 Compliant
Ranges	0.01 – 1050 NTU
Display	High clarity LCD with backlight
User Interface	Soft key access with English, French, and Spanish language options
Data Storage	1000 results and last 12 good calibrations
Size (W x L x H)	82 x 225 x 50mm, 340 g
Weight	200 g (including batteries)
Power Supply	2 x AA batteries or via USB port

### Contents

PTH 092 Turbimeter Plus Kit, Hard Case	Turbimeter Plus instrument, 4 SDVB calibration standards, 4 sample tubes (PT 555), silicone oil (PT 120), dilution tube (PT 512), cleaning cloths, instructions and USB cable. Supplied in a hard case.
--	---

### Calibration Set

PTC 092 Turbimeter Plus calibration set	SDVB Calibration set for the Turbimeter Plus
---	--

# Combination Photometer Kits

Combine turbidity and total suspended solids with a range of disinfection or nutrient parameters. These kits provide an ideal solution for field validation of drinking water treatment, pipework contractors and wastewater compliance monitoring.



PTH7091

### PTH7091 Turbimeter/Chlorometer Kit, Hard Case

Turbimeter Plus, SDVB calibration standards (x4), sample tubes (x4), silicone oil, dilution tube, cleaning cloths, Compact Chlorometer, sample tube brush, crush/stirring rods, 100 tests for free and total chlorine, and instructions. Supplied in a hard case.



PTH7092

### PTH7092 Turbimeter/Chlorometer Duo Kit, Hard Case

Turbimeter Plus, 4 SDVB calibration standards, 4 sample tubes, silicone oil, dilution tube, cleaning cloths, Compact Chlorometer Duo, sample tube brush, crush/stirring rods, 50 tests for free and total chlorine (standard range), 50 tests for chlorine (high range), and instructions. Supplied in a hard case.

### Ordering Information

Turbimeter/ClO2+ Meter Kit, Hard Case	PTH7093
Turbimeter/Ozone Meter Kit, Hard Case	PTH7094
Turbimeter/Ammonia + Meter Kit, Hard Case	PTH7095
Turbimeter/Ammonia Duo Kit, Hard Case	PTH7096

More combined photometers kits available.

# Neutral Density Filter Check Standards

Validate your Compact Meter in the field using the unique Neutral Density Filter Check Standards. Traceable, stable indefinitely and not affected by temperature.



Palintest Compact photometers are the first portable meter to use Neutral Density Filter technology for field validation.

Among the features are:

- Simple to use – insert into the sample tube holder and read the result to check performance is within specification.
- Robust and stable – no degradable components and supplied in a protective case
- Traceable standards – validated and certified for 5 years

With ease of use built in to the design of both meter and standard, the NDF Check Standards are the ideal way to validate meter performance.

Packages

PTC 045 NDF Check Standards for Compact Chlorometer	Validation standards for Compact Chlorometer. Supplied in hard case with certification.
PTC 027 NDF Check Standards for Compact Chlorometer Duo	Validation standards for Compact Chlorometer Duo. Supplied in hard case with certification.
PTC 043 NDF Check Standards for Compact Ozone Meter	Validation standards for Compact Ozone Meter. Supplied in hard case with certification.
PTC 046 NDF Check Standards for Compact ClO2+ Meter	Validation standards for Compact ClO2+ Meter. Supplied in hard case with certification.
PTC 041 NDF Check Standards for Compact Ammonia Range	Validation standards for Compact Ammonia Meter, Compact Ammonia + Meter and Compact Ammonia Duo Meter. Supplied in hard case with certification.

# Spares and Accessories

Maintain your Compact Meter with a complete range of consumables, spares and accessories. Reagents, replacement parts, technical advice and service are all available as part of our after-sales support.



Packages

PT 555 Compact cuvette/ Sample tube pack	Replacement sample tubes for Compact meter, pack of 5
PT 545 Compact cuvette/ sample tube rack	Rigid rack for Compact sample tubes Space for up to 10 tubes
PT 502 Crush/stirring rods	Polypropylene rod for tablet crushing and sample stirring. Pack of 10.
PT 663 Cuvette/Sample tube brush	Sample tube brush, 120mm
06231 Service and Calibration, Compact Meter	Routine service including diagnostic check, optical cleaning and multi-point recalibration with validation certificate. Available from authorised Palintest Service Centres only.

See [www.palintest.com](http://www.palintest.com) for the full range of spares and accessories.

# Servicing and Maintenance

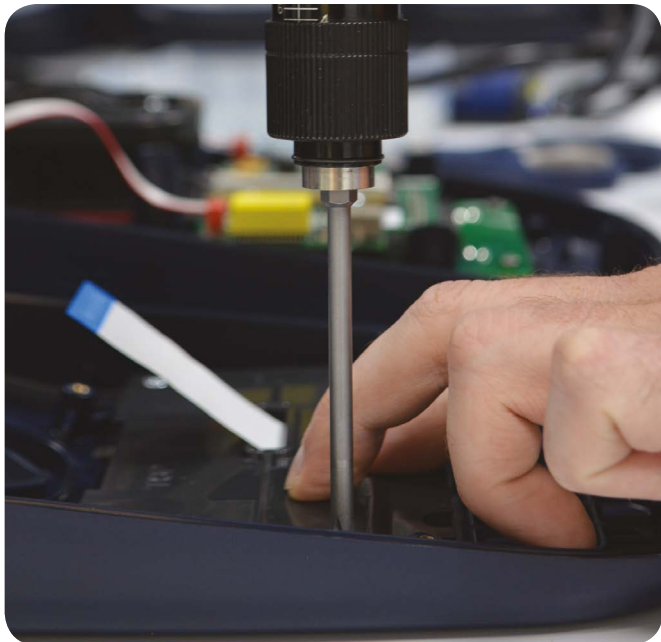
2

Year

Warranty

Register your Compact Meter to take advantage of the 2 year warranty and access our full range of technical support.

Annual calibration and service will keep your instrument operating at the peak of performance.



For further information and support, get in touch with a member of our team:



Palintest UK	Palintest Australia	Palintest USA	Palintest China	Palintest Middle East
Palintest House Kingsway, Team Valley Gateshead Tyne & Wear NE11 0NS England	1/53 Lorraine Street Peakhurst Business Centre Peakhurst NSW 2210 Australia	400 Corporate Circle Suite J, Golden CO 80401 USA	Room 1711 Fanli Mansion 22 Chaowai Street Chaoyang District Beijing 100020, PRC	P.O Box 27709 Engomi 2432 Nicosia Cyprus
+44 (0) 191 491 0808 sales@palintest.com	+61 1300 13 15 16 palintest@palintest.com.au	+1720-221-6878 info@palintestusa.com	+86 10 6588 6200 china@palintest.com	+357 226 66080 sales@palintest.me



# Palintest

Water Analysis Technologies

A HALMA COMPANY

[www.palintest.com](http://www.palintest.com)

**Palintest UK**

Palintest House  
Kingsway, Team Valley  
Gateshead  
Tyne & Wear NE11 0NS  
England

+44 (0) 191 491 0808  
[sales@palintest.com](mailto:sales@palintest.com)

**Palintest Australia**

1/53 Lorraine Street  
Peakhurst Business Centre  
Peakhurst  
NSW 2210  
Australia

+61 1300 13 15 16  
[palintest@palintest.com.au](mailto:palintest@palintest.com.au)

**Palintest USA**

400 Corporate Circle  
Suite J  
Golden  
CO 80401 USA

+1 859 341 7423  
[info@palintestusa.com](mailto:info@palintestusa.com)

**Palintest China**

Room 1711  
Fanli Mansion  
22 Chaowai Street  
Chaoyang District  
Beijing 100020, PRC

+86 10 6588 6200  
[china@palintest.com](mailto:china@palintest.com)

**Palintest Middle East**

P.O Box 27709  
Engomi  
2432 Nicosia  
Cyprus

+357 226 66080  
[sales@palintest.me](mailto:sales@palintest.me)