

DIGI Water Test Kits



High specification and precise.
Water Testing Made Easy.



Make maintenance decisions fast with Kittiwake's complete range of DIGI water testing equipment.

The Kittiwake DIGI water testing range comprises of a selection of high specification tests and equipment for the Water Treatment Professional. Compact, light-weight and accurate instrumentation allows fast on-site analysis. Choose from a range of equipment, which covers a large variety of tests for all industry standard chemistries. Kits can also be complimented by the Kittiwake range of ECON and DIGI test meters.



DIGI Cases and Foams

Kittiwake DIGI tests and equipment can be supplied as individual test kits or as part of a larger, multi-parameter kit. Simply select and combine tests from our extensive range to suit your needs.

Aluminium Cases

Standard test kit cases are available that will accommodate a number of DIGI test packs, providing a portable, bespoke laboratory of your own specification. Aluminium cases are extremely hard wearing, and hold up to 54 different test reagents, test meters and equipment. Pre-cut foam inserts hold all items securely in place, which can be mixed and matched according your requirements.

Plastic Cases

Plastic cases are constructed of rugged ABS plastic, with pre-cut foam inserts to hold all items securely in place. Standard cases contain basic test equipment, along with additional space for a number of test meters, equipment and reagents.



DIGI Titration

Fast and accurate titration tests for both the industrial chemist or professional water engineer. The DIGI Titrator utilises a dedicated syringette assembly and dispensing cartridge, giving precise results.

Individual dispensing cartridges are available for each test. These fit onto the DIGI Titrator, allowing step-wise addition of reagent by repeated trigger action.

The quantity of titrant used can be easily read from the graduated scale plate. This value is then simply multiplied by the factor detailed in the method sheet to convert to ppm (mg/l) of analyte, giving a fast and accurate result.

- Compact and simple to use, the DIGI Titrator is easy to transport for on-site testing and requires minimum training for use.
- Dedicated titrant per test, for clean, accurate results.
- No operator chemical contact, ensuring no contamination.
- Step wise addition of reagent, gives very high levels of accuracy.
- Economical test method, with no burettes or glassware necessary.
- Chemistries manufactured to strict ISO 9001:2000 standards for excellent quality and repeatability.
- Maintenance free - factory adjusted unit for ease of use and continued accuracy.

Ordering Information

- AS-K25800-KW:** DIGI Titrator
AS-K25801-KW: Titration syringe
AS-K24996-KW: 3 way valve (pk5)
AS-K25375-KW: Dispensing needle (pk5)

DIGI A Test Kit Case: FG-K28300-KW

Aluminium case containing:
 DIGI Titration Gun
 4 x syringette assemblies
 Titration Jar
 Crushing rod
 20ml sampling syringe
 Instruction booklet
 Holds up to 15 reagents, plus 7 titration syringettes



Part Number	DIGI Test Pack*	Range	65ml Reagent	30ml Reagent	Reagent Pot	Cartridge
AS-K28302-KW	Acidity	0.1-50 as Acidity Value	1	0	0	1
AS-K26064-KW	Alkalinity (P,M, OH)	10-2000ppm (CaCO ₃)	3	0	0	1
AS-K26065-KW	Chloride	50-2000 ppm (Cl ⁻)	2	0	1	1
AS-K28303-KW	Chlorine (Bleach)	10-2000ppm Cl ₂	0	0	2	1
AS-K28304-KW	EDTA (Free)	75-3000ppm (EDTA)	3	1	0	1
AS-K26066-KW	Hardness (Total/Calcium)	10-2000 ppm (CaCO ₃)	3	0	1	1
AS-K26067-KW	Hardness (Total)	10-2000 ppm (CaCO ₃)	2	0	0	1
AS-K26068-KW	Hardness (Calcium)	10-2000 ppm (CaCO ₃)	1	0	1	1
AS-K26069-KW	Nitrite	20-2000 ppm (NaNO ₂)	2	0	0	1
AS-K28305-KW	Peracetic Acid	20-800ppm (PAA)	0	0	1	1
AS-K26070-KW	Phosphonate	2-50 ppm (H.E.D.P.)	0	1	0	1
AS-K26071-KW	Sulphite	10-100 ppm (Na ₂ SO ₃)	0	0	1	1
AS-K28306-KW	Total Chelant	100-2800ppm (EDTA)	1	1	0	1
AS-K26072-KW	Zinc (Free Soluble)	0.1-10 ppm (Zn)	1	0	1	1
AS-K26073-KW	Zinc (Total Complexed)	0.1-10 ppm (Zn)	3	0	1	1

* Each test pack includes one titration cartridge.

DIGI Colorimetry

An advanced range of portable, rugged, waterproof Colorimeters. Laboratory grade, microprocessor-based meters for the fast and accurate determination of Free and Total Chlorine, Cyanuric Acid, pH, Chlorine Dioxide and Bromine.

The DIGI Colorimeter range is fully portable and provides a cost effective method for easy, accurate testing on-site. Immediate results allow you to easily and effectively monitor your water system. Each meter comes complete with reagents and sample vials in a rugged carrying case, providing everything needed for fast, on-site testing. DIGI Colorimeters are designed for reliable and convenient water analysis in swimming pools and spas, public utilities, industrial waste water plants, water conditioning systems, paper or pulp mills and for municipal or treated water.

- Excellent test to test repeatability, ensuring consistent results every time - annual calibration service and certification available.
- Auto-ranging, for increased ease of use.
- Easy to use, push button operation with no detachable parts or flip covers.
- US EPA approved DPD method, mean that results can be used for reporting purposes (subject to local regulations).
- High quality reagents, manufactured in accordance with ISO 9001:2000 standards, to ensure QC control and batch traceability.
- Advanced power management, including auto power-off and long lasting battery life.
- Lightweight design that is waterproof to IP67 standards - even floats if accidentally dropped in water!

Ordering Information

- FG-K27048-KW** c103 Chlorine Dioxide Colorimeter
- FG-K27049-KW** c104 Bromine Colorimeter
- FG-K26709-KW** c201 Free / Total Chlorine Colorimeter
- FG-K26710-KW** c301 Free/ Total Chlorine/ pH Colorimeter
- FG-K26711-KW** c401 Free/ Total Chlorine/ pH/ Cyanuric Acid Colorimeter

All colorimeters are supplied in a robust plastic case with reagents for 100 tests.



Parameters	Chlorine (Free and Total)	pH	Cyanuric Acid	Bromine	Chlorine Dioxide
Range	0 - 1.99 ppm/ 2.0 - 6.0 ppm	5.9 - 8.2 pH	5 - 90 ppm	0 - 4.49 ppm/ 4.5 - 13.5 ppm	0 - 3.79 ppm/ 3.8 - 11.4 ppm
Resolution	0.1 ppm 0.1 ppm	0.1 pH	1 ppm	0.02 ppm/ 0.2 ppm	0.01 ppm/ 0.1 ppm
Accuracy	0.02 ppm/ 0.2 ppm	+/- 0.1 pH	+/- 4 ppm	+/- 0.03 ppm/ +/- 0.3 ppm	±0.02 ppm ±0.2 ppm
FG-K26711-KW	■	■	■		
FG-K26710-KW	■	■			
FG-K26709-KW	■				
FG-K27049-KW				■	
FG-K27048-KW					■

Part Number	DIGI Test Pack	No. of Tests/ Equipment
AS-K23346-KW	pH Indicator (Phenol Red)	100
AS-K23347-KW	Cyanuric Acid	100
AS-K25176-KW	Chlorine, Free (DPD)	100
AS-K25177-KW	Chlorine, Total (DPD)	100
AS-K26642-KW	Chlorine Dioxide (Glycine)	100
BI-K27230	Glass 10 ml Test Cells	3

Colorimeter Specifications

Measurement Method: Photometric
Light Source: Light Emitting Diode (LED)
Wavelength: 525 nm
Detector: Silicon photodiode
Absorbance Range: 0 - 2.5 Abs
Photometric Precision: ± 0.0015 Abs
Calibration Points: User selectivity; 1 point per colorimetric test
Sample Cells: Glass with screw caps, fill line and indexing mark
Sample Volume Required: 10 ml
Sample Temperature Range: 0 - 50°C
Power Supply: 4 'AAA' alkaline batteries
Battery Life: > 3000 tests
Instrument Weight: 200g
Dimensions (Instrument): 6.8(W) x 15.5(L) x 4.6(H) cm
Warranty: 2 years

DIGI Photometry

The DIGI Smart II Photometer offers user functions, stability and accuracy previously unavailable in its price bracket.

A large range of pre-programmed tests can be run on this compact instrument, with each test featuring automatic wavelength and unit selection. The user simply selects the test and the instrument will automatically report the result in the correct units, eliminating the need to look up result in tables or graphs. Up to 10 tests can be loaded for analysing custom reagent systems. In addition, commonly used tests can be easily grouped together for very rapid test selection.

An optional cable is available for downloading stored results to a PC (via HyperTerminal), with results time and date stamped. New test procedures can be emailed in a format that allows the DIGI Smart II Photometer to be updated without being returned to Kittiwake.

- Menu driven operation, with simple 6 button key pad for easy data input and up to 10 user-programmable test methods.
- Up to 50 pre-programmed tests specifically for Kittiwake colorimetric reagent systems, including C.O.D. and Dissolved Oxygen vial-based tests.
- Automatic wavelength and unit selection - no user selection necessary.
- 25mm path length cells for higher accuracy at low ranges.
- Computer link to download and store results for further data analysis.

Photometer Specifications

Light Source: LED/filter setup at 430nm, 520nm, 570nm, 620nm
Detector: Photodiode
Display: 122x32 LCD, 16x4 line graphics display
Range: -2 to 2 Absorbance Units (AU)
Resolution: 1% FS
Accuracy: 2% FS
CE Mark: Yes
Sample Cell: 25 mm round cell, 10 mm square cuvette, 16mm COD tubes
Power: 9V or AC adapter
Battery Life: 500 tests
Data logging: RS-232, time and date stamped
Calibration: Factory set
Keypad: 6-button membrane switch
Size: 15 x 8 x 5.5 cm
Weight: 370 g

Ordering Information

FG-K23040-KW: Photometer and Accessories
(includes instructions, 4 x photometer cells, COD adaptor, batteries and EU/UK mains supply)
BI-K23127: Glass Photometer cells (10ml), pk 6
BI-K23041: COD adaptor for Photometer

DIGI B Test Kit Case: FG-K28301-KW

Aluminium case containing Smart II Photometer, sample bottles and basic equipment, plus space for up to 54 reagents (including 14 cartridges, 7 x 30 ml bottles, 33 x 65 ml bottles or pots)



DIGI Photometry

Part Number	DIGI Test Pack	Range	65 ml Reagent	30 ml Reagent	Reagent Pot
AS-K22124-KW	Aluminium	0-0.5ppm Al ³⁺	0	0	2
AS-K22126-KW	Ammonia	0-1.5ppm NH ₃ -N	0	0	2
AS-K22141-KW	Bromine	0-10ppm Br ₂	0	0	2
AS-K22143-KW	Chloride	0-20ppm Cl ⁻	2	0	0
AS-K24991-KW	Chlorine (Free)	0-2.5ppm Cl ₂	0	0	1
AS-K24992-KW	Chlorine (Total)	0-2.5ppm Cl ₂	0	0	1
AS-K22153-KW	Chlorine (Free & Total)	0-4.5ppm Cl ₂	0	0	2 (sachets)
AS-K28307-KW	Chlorine HR	0-100 ppm Cl ₂	0	0	2
AS-K25004-KW	Chlorine Dioxide LR	0-2.5ppm ClO ₂	0	0	2
AS-K22162-KW	Chlorine Dioxide	0-8ppm ClO ₂	0	0	2
AS-K22165-KW*	Chromium	0-2.0ppm Cr ⁶⁺	1	0	1
AS-K23047-KW	C.O.D. LR	0-150 ppm O ₂	-	C.O.D. vials supplied	-
AS-K23048-KW	C.O.D. MR	10-1500ppm O ₂	-	in packs of 25	-
AS-K23049-KW	C.O.D. HR	100-10,000ppm O ₂	-	-	-
AS-K22171-KW	Copper LR (Free)	1.0ppm Cu	0	0	1
AS-K22176-KW	Copper	0-4.0ppm Cu	0	0	2
AS-K28308-KW	Copper (Cu1)	0-5.0 ppm	0	0	1 (sachets)
AS-K22180-KW	DEHA	0-0.5ppm DEHA	2	0	0
AS-K22183-KW*	Hydrazine	0-1ppm N ₂ H ₄	1	0	0
AS-K24982-KW	Iron (Total Soluble)	0 - 3.0ppm Fe	0	0	1 (sachets)
AS-K22204-KW	Iron HR	0-10ppm Fe	2	0	0
AS-K22199-KW	Iron LR	0-2ppm Fe ₂₊ & Fe ₃₊	3	0	0
AS-K22198-KW	Iron	0-2ppm Fe	1	0	0
AS-K22206-KW	Manganese	0-5.0 Mn	0	3	0
AS-K23280-KW	Molybdate	0-100ppm MoO ₄	1	0	0
AS-K28309-KW	Molybdate (Moly 1, 2,3)	0-40ppm MoO ₄	0	0	3 (sachets)
AS-K22209-KW	Molybdate	0-20ppm MoO ₄	1	0	2
AS-K22213-KW*	Nickel	0-5ppm Ni ₂₊	0	3	0
AS-K28310-KW	Nitrate	0-40ppm NO ₃	1	0	1
AS-K22223-KW*	Nitrite	0-2.5 NaNO ₂	1	0	1
AS-K25002-KW	Phosphate (Phos 3)	0-2.5ppm PO ₄	1	0	1 (sachets)
AS-K22235-KW	Phosphate	0-10ppm PO ₄ ²⁻	1	0	1
AS-K22239-KW	Phosphate	5-80ppm PO ₄ ²⁻	2	0	0
AS-K22247-KW	Polyacrylate	User Calibrated	2	0	0
AS-K22251-KW	Silica	0-8ppm SiO ₂	2	0	1
AS-K28311-KW	Silica HR	0-40ppm SiO ₂	0	0	3 (sachets)
AS-K22266-KW	Zinc	0-2.5ppm Zn	1	0	1

* Available as a special item only - Quantity dependant. Contact Kittiwake for more details

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