



pH & TDS instrumentation — 2017 —



specialists in temperature measuring equipment for over 30 years

pH Pal Plus pH Tester

ideal for food processing & laboratories

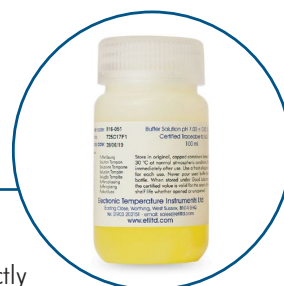
- pocket-sized meter, ideal for everyday use
- automatic re-calibration feature
- easy to read 8 mm LCD display
- display hold function

The pH Pal Plus pH tester is a user-friendly, simple to use pocket-sized pH meter that incorporates an automatic re-calibration feature. At the touch of a button, the instrument will automatically re-calibrate itself when used in conjunction with a 7.00 pH buffer solution.

The unit is housed in a water resistant case and features an easy to read 8 mm LCD display indicating pH over the range of 0 to 14 pH with a resolution of 0.1 pH and an accuracy of ± 0.2 pH.

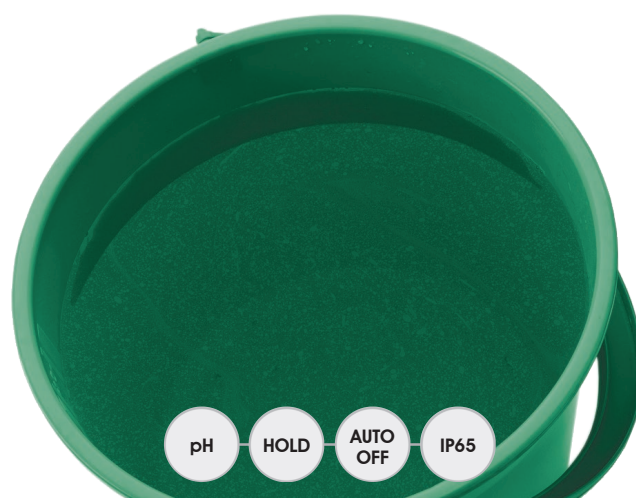
The pH Pal Plus tester will power off automatically after ten minutes, maximising battery life. This pH Pal is ideal for measuring the pH in food processing and water testing applications. The pH tester is an invaluable tool when mixing concentrates with water.

The unit is powered by four LR44 button cell batteries (supplied) and includes a protective cap.



optional accessory

This ready-made 7.00 pH buffer solution ensures the pH meter is reading correctly



order code	description	
813-513	pH Pal Plus pH tester	
816-051	7.00 pH buffer solution	

specification	pH Pal Plus pH tester
range	0 to 14 pH
resolution	0.1 pH
accuracy	± 0.2 pH
battery	4 x 1.5 volt LR44 button cell
battery life	150 hours
display	8 mm LCD
dimensions	15 x 32 x 170 mm
weight	70 grams

8000 pH meter

& interchangeable electrode

- easy to use 2-point re-calibration function
- 2 year guarantee

The 8000 pH meter features an easy to read, LCD display and is supplied with a budget pH electrode.

The 8000 pH meter indicates pH over the range of 0 to 14 pH with a resolution of 0.01 pH and an accuracy of ± 0.05 pH. The pH readings are manually temperature compensated over the range of 0 to 60 °C (default 25 °C).

At the touch of a button, the instrument will automatically re-calibrate itself when used in conjunction with pH buffer solutions. The unit will power off automatically after ten minutes, maximising battery life.

Designed and built in Britain, The 8000 pH meter is housed in an ergonomic, robust ABS case that includes 'Biomaster' additive which reduces bacterial growth.

order code	description	
860-800	8000 pH meter	
823-500	spare pH electrode	
the 8000 pH meter is inclusive of pH electrode		



budget pH electrode (823-500)



specification	8000 pH meter
range	0 to 14 pH
resolution	0.01 pH
accuracy	± 0.05 pH
battery & life	3 x 1.5 volt AAA - 5000 hours
sensor type	combination electrode
display	custom LCD
dimensions	25 x 56 x 128 mm
weight	130 grams

8100 pH Kit

pH & temperature meter

- simultaneously displays pH & temperature
- automatic temperature compensation (ATC)

This pH kit includes an 8100 pH meter, budget pH electrode, temperature probe, 4.01 and 7.00 pH buffer solutions all supplied in a portable carrying case.

The 8100 pH meter features an easy to read, LCD that simultaneously displays both pH and temperature readings. The pH readings are automatically temperature compensated over the operating range of 0 to 60 °C utilising the temperature probe supplied.

At the touch of a button, the instrument will automatically re-calibrate itself when used in conjunction with pH buffer solutions. The unit will power off automatically after ten minutes, maximising battery life.

The 8100 pH meter is housed in an ergonomic, robust ABS case that includes 'Biomaster' additive which reduces bacterial growth.

order code	description	
860-810	8100 pH kit	
170-101	spare temperature probe	
823-500	spare pH electrode	



specification	pH	temperature
range	0 to 14 pH	0 to 99.9 °C
resolution	0.01 pH	0.1 °C
accuracy	± 0.05 pH	± 0.5 °C
battery & life	3 x 1.5 volt AAA - 5000 hours	
sensor type	combination electrode / thermistor	
display	custom LCD	
dimensions	25 x 56 x 128 mm	
weight	130 grams	

8100 Plus pH Kit

pH & temperature meter

- manual/automatic temperature compensation
- easy to use 2-point re-calibration function

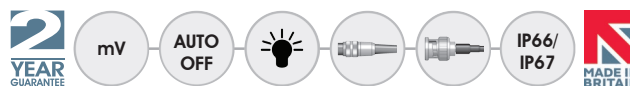
This compact pH kit comprises of an 8100 Plus pH meter, temperature probe, general purpose pH electrode, 4.01 and 7.00 pH buffer solutions all supplied in a portable carrying case. The 8100 Plus pH meter is a three-in-one instrument that indicates pH, mV and temperature on a large, easy to read LCD that also features a user selectable backlight and low battery indication.

The pH readings are either manually or automatically temperature compensated over the range of 0 to 100 °C. To automatically compensate, it is necessary to utilise a thermistor temperature probe. Each unit incorporates an auto-power off facility that automatically turns the instrument off after ten minutes, maximising battery life.

Designed and built in the UK, the 8100 Plus has an integrated rubber seal to ensure complete water resistance and helps to reduce the possibility of damage in harsh environments. At the touch of a button, the instrument will automatically re-calibrate (two-point autocal) itself when used in conjunction with pH buffer solutions.

Each unit incorporates an easy to use BNC connector and Lumberg screw-locking type connector, allowing for a wide range of interchangeable thermistor probes to be used.

order code	description
860-820	8100 Plus kit
170-100	spare temperature probe
830-231	silicone boot - white
832-050	s/steel wall bracket & boot



specification	pH	mV	temperature
range	-2 to 16 pH	±1000 mV	-39.9 to 149.9 °C
resolution	0.01 pH	1 mV	0.1 °C
accuracy	±0.02 pH	±1 mV	±0.4 °C (-10 to 70 °C)
battery & life	3 x 1.5 volt AAA - maximum 5 years		
sensor type	combination electrode / thermistor		
display	12 mm LCD		
dimensions	32 x 71 x 141 mm		
weight	230 grams		

pH Buffer Solutions & Capsules

for pH meters & electrodes



order code	description
816-050	4.01 pH buffer solution - 100 ml
816-051	7.00 pH buffer solution - 100 ml
816-052	10.01 pH buffer solution - 100 ml
816-040	cleaning solution - 500 ml
816-041	storage solution - 500 ml



These DIY pH buffer capsules each make 100 ml of solution when mixed with de-ionised water. Supplied in packs of ten capsules.

order code	description
816-004	4.00 pH buffer capsules (10)
816-007	7.00 pH buffer capsules (10)
816-009	9.00 pH buffer capsules (10)
816-010	10.00 pH buffer capsules (10)

HortiStick Nutrient Tester

for measuring pH, EC & temperature

- displays pH, temperature & nutrient concentration
- backlight, auto-power off & display hold functions
- automatic re-calibration feature
- water resistant IP65 instrument

The HortiStick is a three-in-one instrument that combines the measurement of pH, conductivity (mS) and temperature. The unit simultaneously displays nutrient concentration along with either pH or temperature. This simple, easy to use meter is ideal for the testing of hydroponic solutions and water treatment processes.

The instrument features two clear LCD displays and indicates pH and temperature over the range of 0 to 14 pH and 0 to 49.9 °C. The HortiStick incorporates both automatic temperature compensation and a one-touch auto-calibration feature, as well as a user selectable backlight, display hold and an auto-power off facility, maximising battery life.

The instrument is suitable for everyday use and is housed in a rugged, water resistant case with built-in shock resistant sensor which offers IP65 protection. For prolonged use, a replacement electrode is also available.

The HortiStick is powered by four AA batteries (supplied) and includes a protective cap.



order code	description	
813-800	HortiStick nutrient tester	
813-811	replacement electrode	



°C/°F

pH

mS

HOLD

AUTO OFF

IP65

specification	pH	EC	temperature
range	0 to 14 pH	0 to 4 mS	0 to 49.9 °C
resolution	0.1 pH	0.1 mS	0.1 °C
accuracy	±0.2 pH	±0.2 mS	±0.5 °C
battery	4 x 1.5 volt AA		
battery life	50 hours continuous use		
display	2 x 10 mm LCD		
dimensions	Ø36 x 415 mm		
weight	275 grams		



HortiCare Nutrient Tester

for measuring EC, cF or TDS levels

- easy to use re-calibration function
- water resistant IP65 instrument

The HortiCare nutrient tester indicates the levels of nutrient concentrations. The unit measures EC (mS), cF or TDS (ppm) levels of essential mineral elements in soluble form.

The instrument is housed in a rugged, water resistant case suitable for everyday use. The HortiCare nutrient tester features an easy to read LCD display.

The HortiCare nutrient tester incorporates an automatic calibration feature. At the touch of a button, the instrument will automatically re-calibrate itself when used in conjunction with 6.7 mS (67 cF or 4700 ppm) standard solution. Each tester is supplied with a protective cap.

order code	description	
813-771	HortiCare nutrient tester	
816-070	nutrient tester solution - 100 ml	



specification	EC	cF	TDS
range	0 to 10.0 mS	0 to 100 cF	0 to 7000 ppm
resolution	0.1 mS	1 cF	100 ppm
accuracy	±0.2 mS	±2 cF	±2 % of full scale
battery & life	4 x 1.5 volt LR44 - 100 hours		
display	8 mm LCD		
dimensions	15 x 32 x 170 mm		
weight	70 grams		

TDS Conductivity Testers

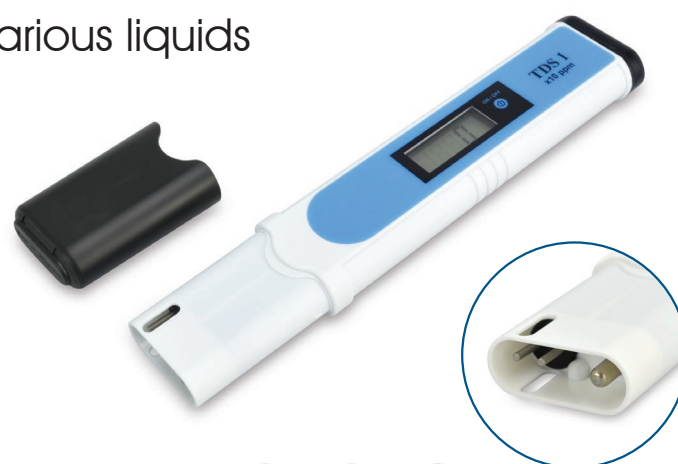
for measuring the ppm or μ S in various liquids

- easy to use pocket-sized meter
- water resistant IP65 instrument

These TDS conductivity testers are ideal for monitoring a variety of applications including the amount of salts, nutrients or dissolved solids in water. The readings are automatically temperature compensated over the range of 0 to 50 °C.

There are two models of both the TDS and conductivity testers, suitable for either low or high concentrations of total dissolved solids in liquids. Each TDS tester is supplied with a protective cap. For ppm, μ S and mS calibration solutions see below.

order code	description	
813-525	TDS1 ppm tester	
813-526	TDS2 ppm tester	
813-527	TDS3 μ Siemen tester	
813-528	TDS4 μ Siemen tester	
816-055	1382 ppm solution - 90 ml (TDS1)	
816-057	6440 ppm solution - 90 ml (TDS2)	
816-054	1413 μ S solution - 90 ml (TDS3)	
816-056	12.88 mS solution - 90 ml (TDS4)	



specification	TDS1	TDS2	TDS3	TDS4
range	10-1990	100-9999	10-1990	100-19900
resolution	10 ppm	100 ppm	10 μ S	100 μ S
accuracy	±2 % of full scale			
battery & life	4 x 1.5 volt LR44 - 100 hours			
display	6 mm LCD			
dimensions	15 x 32 x 147 mm			
weight	55 grams			