pH Instrumentation

for portable laboratory analysis

THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2012

Electronic Temperature Instruments Ltd • Manufacturing
30 Years
1983 - 2013
Celebrating 30 years of British Manufacturing

2013

8000 pH meter
& interchangeable electrode

- simple & easy to use
- automatic re-calibration function

NEW

The 8000 pH meter features an easy to read, LCD display and is supplied with a general purpose combination glass electrode and carrying case.

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).

The unit will power off automatically after ten minutes, maximising battery life.

At the touch of a button, the instrument will automatically re-calibrate itself when used in conjunction with pH buffer solutions. For pH buffer solutions and capsules, see back page.

order code	description	£ each
860-800	8000 pH meter	70.00
the 8000 pH meter is inclusive of pH electrode		

specification	8000 pH meter
range	0 to 14 pH
resolution	0.01 pH
accuracy	±0.05 pH
battery & 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)

NEW

temperature probe (170-101)

The 8100 pH meter features an easy to read, LCD display and is supplied as a kit which includes a 8100 pH meter, general purpose combination glass electrode, temperature probe, 4.01 and 7.00 pH buffer solutions and carrying case.

The 8100 pH meter indicates pH over the range of 0 to 14 pH with a resolution of 0.01 pH and temperature over the range of 0 to 99.9 °C with a resolution of 0.1 °C. 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. For pH buffer solutions and capsules, see back page.

order code	description	£ each
860-810	8100 pH kit	90.00

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 & 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 meter

pH & temperature meter

NEW

- robust waterproof case offering IP66/67 protection
- manual/automatic temperature compensation
- integrated rubber seal for durability
- simple pH re-calibration function

The new 8100 Plus pH meter is a three-in-one instrument that features a large easy to read, LCD display that indicates pH over the range of -2 to 16 pH with a resolution of 0.01 pH, mV over the range of -1000 to 1000 mV and temperature over the range of -39.9 to 149.9 °C with a resolution of 0.1 °C. The LCD display features both low battery indication and a user selectable backlight.

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.

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 (2 point autocal) itself when used in conjunction with pH buffer solutions. For pH buffer solutions and capsules, see back page.

Each unit incorporates an easy to use BNC connector and waterproof Lumberg screw-locking type connector, allowing a wide range of interchangeable thermistor probes to be used. For our extensive range of temperature probes, please visit our website or contact our sales office.

The 8100 Plus is available as a meter only or as a complete kit which includes:

general purpose electrode (823-501)

temperature probe (170-100)

8100 Plus pH meter kit

- 8100 Plus pH meter *(225-085)*
- temperature probe *(170-100)*
- general purpose pH electrode *(823-501)*
- 4.01 pH buffer solution *(816-050)*
- 7.00 pH buffer solution *(816-051)*
- carrying case *(830-080)*

order code	description	£ each
225-085	8100 Plus pH meter*	90.00
860-820	8100 Plus kit	120.00
830-257	protective silicone boot	7.00

** 8100 Plus is exclusive of pH electrode & probe*

°C pH mV AUTO OFF IP66/67

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	3 x 1.5 volt AAA		
battery life	maximum 5 years (2500 hours)		
sensor type	combination electrode / thermistor		
display	12 mm LCD		
dimensions	32 x 71 x 141 mm		
weight	230 grams		

fax: 01903 202445

tel: 01903 202151

pH Electrodes
with BNC connector

pH meters are only part of the system, of equal importance is the design of the pH probes that are used to physically measure the product. This range of standard hand held pH electrodes are fully interchangeable via a BNC connector and are designed for use with the 8000/8100/8100 Plus pH meters or similar.

		order code	£ each
general purpose electrode *Ø12 x 120 mm*	This plastic bodied, electrode is ideal for measuring the pH in liquids and semi-solids in a wide variety of laboratory applications.	823-501	40.00
12 mm spear-shaped electrode *Ø12 x 120 mm*	This glass penetration pH electrode is ideal for insertion into semi-solid materials in a wide variety of laboratory applications.	823-502	85.00
6 mm spear-shaped electrode *Ø6 x 120 mm*	This glass penetration pH electrode is suitable for measuring the pH in a variety of laboratory applications. The probe is ideal for inserting into semi-solid and soft materials.	823-503	85.00

Calibration Solutions & Capsules
for pH meters & electrodes

pH buffer solutions

These ready-made pH buffer solutions are suitable for checking pH instrumentation and pH electrodes.

Buffer solutions are available for 4.01, 7.00 and 10.01 pH. All solutions are supplied in 100 ml bottles.

order code	description	£ each
816-050	4.01 pH buffer solution - 100 ml	7.50
816-051	7.00 pH buffer solution - 100 ml	7.50
816-052	10.01 pH buffer solution - 100 ml	7.50

pH buffer capsules

These DIY pH buffer capsules are available in three standard values, 4.00, 7.00 and 9.00 pH.

Each capsule makes 100 ml of solution when mixed with distilled water. Supplied in packs of ten capsules.

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

All prices exclude carriage & VAT and are valid until 31st December 2013

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