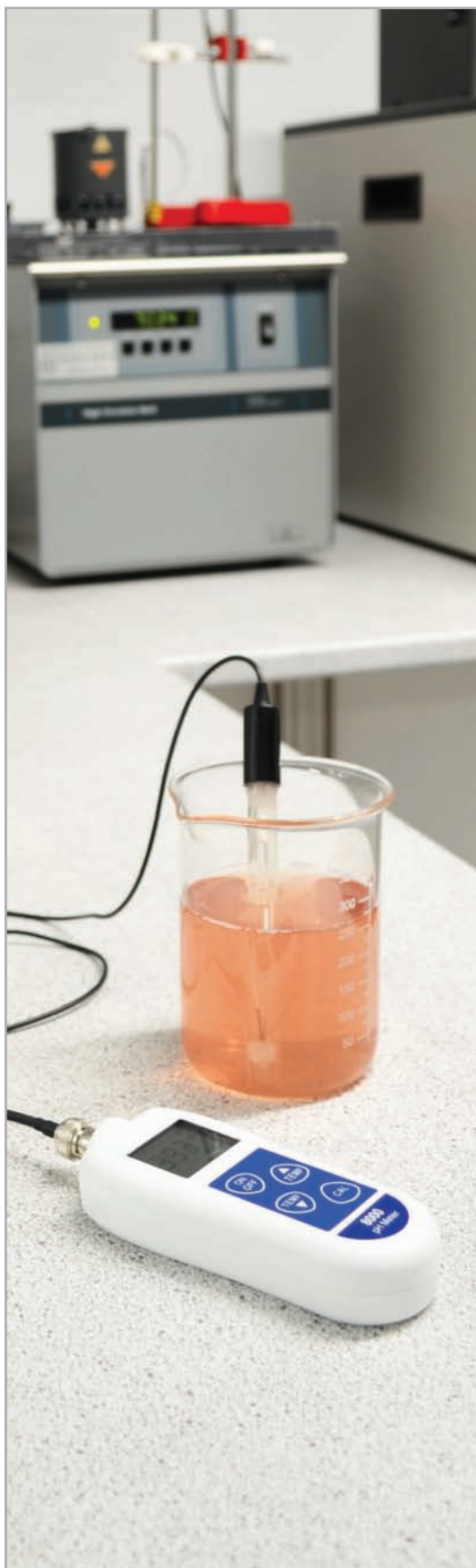




pH Instrumentation

for portable laboratory analysis



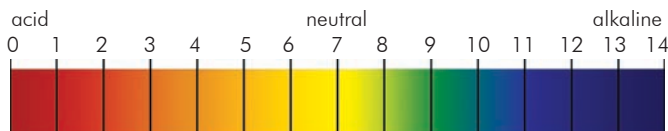
pH meters

The pH (potential hydrogen) level of any material or substance is defined by the acidity or alkalinity of that substance and is represented on a scale of 0 to 14; 7 pH being neutral, 0 pH acidic and 14 pH alkaline. This factor can affect many parameters in nearly all types of process or production.

applications

These analytical meters can be used in many areas, for example:

- food production
- water quality
- process industry
- laboratories
- fish farming
- agriculture



maintaining your pH meter

If you do not look after your pH meter then incorrect measurements of pH levels may occur. As a minimum, you must always wash the pH electrode (the measuring part of the instrument) in clean water. Do not touch the pH electrode unless using a damp tissue or cloth for cleaning and then only using extreme care.

When not in use, ensure the pH meter electrode is kept moist in either storage solution or a pH 4 solution. If the sensor is allowed to dry out completely, the instrument's performance will be effected and its warranty invalidated.

If an electrode has been allowed to dry out or becomes slow to respond, it may be rejuvenated by soaking the electrode overnight in storage solution. After overnight soaking, rinse the electrode and then soak in a 4 pH buffer solution before giving the electrode a final rinse. The electrode should then be ready for use.

calibrating your pH meter

To ensure accurate measurements, it is necessary to calibrate pH meters on a regular basis. For this you will require pH buffer solutions. These standard, inexpensive solutions are used to check that the pH reading is correct. If it is not, it can be easily corrected following the procedure for the specific instrument.

Generally pH electrodes have a limited working life, dependant on the frequency of use.



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. For pH buffer solutions and capsules, see page 118.



order code	description	£ each
813-513	pH Pal Plus pH tester	42.00
816-051	7.00 pH buffer solution	7.50



optional accessory

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



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

