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# labCHEM-pH



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TPS Australia - Quality hand-made instruments since 1968.

## labCHEM-pH Benchtop pH - mV - Temperature Meter



[Full size image](#)

- ◆ *Simultaneous readout of pH or mV Temperature*
- ◆ *14.5mm high 16 character alphanumeric LCD*
- ◆ *Waterproof Design*
- ◆ *Easy to use*
- ◆ *Automatic Stability Function*
- ◆ *One-touch calibration*
- ◆ *Optional RS232 Serial Port*
- ◆ *Optional Recorder Output*
- ◆ *Australian Made*

At last - a pH meter that has all the

Expand the capabilities of the **labCHEM-**

features required for precision laboratory work, but which is easy enough for anybody to use.

The 16 character alphanumeric display has huge 14.5mm digits. It features simultaneous readout of pH/mV and temperature and user-friendly full-text messages.

The new Automatic Stability Function (ASF) makes taking readings absolutely simple. When all the readings have fully stabilised, the ASF system will freeze the display and show a tick. The reading can then be recorded as required. The user can also disable the ASF system.

The **labCHEM-pH** is ideal for Quality Control laboratories, plant operators, educational use and many other purposes. It has been designed primarily for ease of use. Operators with little or no laboratory experience can operate the **labCHEM-pH** with complete confidence quickly and easily.

The **labCHEM-pH** is fully waterproof to IP65, so it is suitable for even the harshest laboratory or factory environments. It has just four keys to make operation of the **labCHEM-pH** absolutely simple.

Calibration of the **labCHEM-pH** is fully automatic at the press of just one key. The meter automatically recognises buffers and calibrates itself accordingly. The electrode asymmetry and slope are displayed at calibration, allowing for preventative maintenance and instant troubleshooting.

**pH** with the optional RS232 interface. All readings obtained with the **labCHEM-pH** can be stored permanently on disk. The **WinTPS** software package is also available, allowing the **labCHEM-CP** to communicate with a PC running Windows 95, 98, ME, 2000 & XP.

An analogue recorder output is another option. This provides an interface with pen type recorders or dataloggers with analogue input.

A polarisation output makes it possible to use the **labCHEM-pH** for moisture measurements using the Karl Fischer titration method.

The **labCHEM-pH** operates from an AC/DC power adaptor. Adaptors are available for all countries.

The **labCHEM-pH** is proudly designed and manufactured in Australia. Our aim is to provide you with the best quality, service and value for money. The TPS Quality System has been certified in accordance with the AS/NZS ISO 9001 standard. Since 1968, TPS has built a reputation for excellent backup service that is second to none.

## Specifications

### **pH**

Range : 0 to 14.00 pH  
Resolution : 0.01 pH  
Accuracy : +/-0.01pH

### **mV**

Range : 0 to +/-600.0 and  
0 to +/-1500 mV  
(auto-ranging)  
Resolution : 0.1 & 1 mV  
Accuracy : +/-0.15 & +/-1 mV

### **Temperature**

Range : -10.0 to 120.0 °C  
Resolution : 0.1 °C  
Accuracy : +/-0.2 °C

### **Input Impedance**

>3 x 10<sup>12</sup> Ohms

### **Asymmetry Range**

-1.00 to +1.00 pH

### **Slope Range**

85.0 to 105.0%

### **Temperature Compensation**

0 to 100 °C, automatic or manual. The labCHEM-PH automatically detects whether or not the temperature sensor is connected.

### **Automatic Buffer Recognition**

4.00, 6.88, 7.00, 9.23 and 10.06 pH

### **Enclosure**

Tough, high impact ABS. Waterproof case and connectors.

### **Display**

14.5mm high, 16 character alphanumeric LCD with full-text messages.

### **RS232 Serial Port Output (Optional)**

1200, 9600, 19200 or 38400 Baud.  
8 Bits, No Parity, 1 Stop Bit, XON/XOFF

### **Recorder Output (Optional)**

0 to 2000mV Output for...  
0.00 to 14.00 pH  
-1500 to 1500 mV  
-10.0 to 120.0 °C  
Output impedance approx 1000 Ohms

### **Power**

12V AC/DC Power Adaptor.

### **Dimensions**

240 x 180 x 105 mm

### **Mass**

Instrument only : Approx 1.0kg  
Full Kit : Approx 2.5kg

### **Environment**

Temperature : 0 to 45 °C  
Humidity : 0 to 90% R.H.

## Ordering Information

labCHEM-pH pH/mV-Temp.....121104

**Part No**

### **Kit Includes**

pH Sensor, 1m Surface only....121207  
Temperature/ATC Sensor.....121248  
pH6.88 Buffer, 200mL.....121306  
pH4.00 Buffer, 200mL.....121381  
AC/DC Power Adaptor.....130037  
Manual.....130050

### **Optional Sensors**

pH Sensor Upgrade for difficult samples such as meat,dairy,slurries...

### **Options and Accessories**

**Part No**

#### **Computer Interface:**

RS232 Serial Port & cable.....130039  
Serial to USB adaptor cable.....130087  
**WinTPS** Software for Windows.....130086

#### **Computer Interface:**

Recorder Output & cable.....130028  
RS232 + Recorder Output & cable.130049

#### **Sensor Holder:**

Flexible Sensor Holder.....130088

pH, Intermediate Junc, 1m.....121200/1

**ORP Sensors:**

ORP, Surface only, 1m.....121262  
ORP, Intermediate Junc, 1m....121269  
ORP Calibration Solution.....121309

***Please click the following links for further details on the TPS range of sensors...***

[pH Sensors](#)

[Redox \(ORP\) Sensors](#)



[Download this Specification Sheet in PDF format.](#)



[Download the full colour labCHEM Series Brochure \(1.32 MB PDF\).](#)



[Download the handbook for this instrument.](#)

**Hint :** Right click on a link, then select "Save Target As..." or "Save Link As..." to save the file to your own computer.

If you do not have Adobe Acrobat in your computer, a free Acrobat Reader can be downloaded by clicking on the following link.



*TPS reserves the right to change any part of this specification without notice.*

*Version 2.0*

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Aqua-pH

WP-80

WP-80D

90-P

pH Cube

labCHEM-pH

smartCHEM-pH

microCHEM-pH

miniCHEM-pH

proCHEM-P

microCHEM-Redox

miniCHEM-Redox

proCHEM-R

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