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labCHEM-CP



请使用翻译作用于本页底部以翻译页对汉语。

TPS Australia - Quality hand-made instruments since 1968.

labCHEM-CP Benchtop Conductivity/TDS - pH/mV - Temperature Meter



[Full size image](#)

- ◆ *Simultaneous readout of Conductivity/TDS and pH/mV*
- ◆ *14.5mm high 16 character alphanumeric LCD*
- ◆ *Waterproof Design*
- ◆ *Easy to use*
- ◆ *Automatic Stability Function*
- ◆ *One-touch calibration*
- ◆ *Optional RS232 Serial Port Interface*
- ◆ *Optional Recorder Output*

 **Australian Made**

The NEW **labCHEM-CP** is a Conductivity, TDS, pH, mV and Temperature meter that has all the 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 Conductivity/TDS and pH/mV with user-friendly full-text messages.

The **labCHEM-CP** is ideal for a broad range of applications, including Quality Control laboratories, plant operators, schools, colleges and universities. It is user-friendly and users with little or no laboratory experience can operate the **labCHEM-CP** with complete confidence quickly and easily.

The waterproof keypad of the **labCHEM-CP** eliminates the need for knobs and dials. It has just four keys to make operation of the **labCHEM-CP** absolutely simple.

Calibration of the **labCHEM-CP** 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.

An Automatic Stability Function (ASF) is a standard feature. ASF automatically freezes the display when all readings become stable. ASF can also be used during calibration to ensure the highest possible degree of accuracy.

Expand the capabilities of the **labCHEM-CP** with the optional RS232 serial port interface. All readings obtained with the **labCHEM-CP** 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.

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

The **labCHEM-CP** 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. For over 30 years, TPS has built a reputation for excellent backup service that is second to none.

Specifications

specifications**Conductivity**

Ranges : 4 ranges with auto range selection

k=0.1 Sensor : 0 to 2.000 uS/cm
 0 to 20.00 uS/cm
 0 to 200.0 uS/cm
 0 to 2000 uS/cm
 k=1 Sensor : 0 to 20.00 uS/cm
 0 to 200.0 uS/cm
 0 to 2000 uS/cm
 0 to 20.00 mS/cm
 k=10 Sensor : 0 to 200.0 uS/cm
 0 to 2000 uS/cm
 0 to 20.00 mS/cm
 0 to 200.0 mS/cm

Resolution

0.05% of selected range

Accuracy

+/-0.5% of full scale of selected range at 25°C

TDS

Ranges : 4 ranges with auto range selection.

k=0.1 Sensor : 0 to 1.000 ppM
 0 to 10.00 ppM
 0 to 100.0 ppM
 0 to 1000 ppM
 k=1 Sensor : 0 to 10.00 ppM
 0 to 100.0 ppM
 0 to 1000 ppM
 0 to 10.00 ppK
 k=10 Sensor : 0 to 100.0 ppM
 0 to 1000 ppM
 0 to 10.00 ppK
 0 to 100.0 ppK

Resolution

0.1% of selected range

Accuracy

+/-0.5% of full scale of selected range at 25°C

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 Compensation**Conductivity**

Automatic, 0 to 100°C, via thermistor in Conductivity sensor.

pH

Automatic (via Temperature sensor) or manual, 0 to 100 °C.

The 901-CP automatically detects whether or not the temperature sensor is connected.

Automatic Standard Recognition**Conductivity**

14.94 uS/cm, 73.9 uS/cm, 150.0 uS/cm,
 717.8 uS/cm, 1413 uS/cm, 2760 uS/cm,
 6.67 mS/cm, 12.90 mS/cm, 24.82 mS/cm,
 58.00 mS/cm, 111.9 mS/cm

TDS

69.5 ppM, 2.00 ppK, 8.00 ppK, 36.0 ppK

pH

4.00, 6.88, 7.00, 9.23 and 10.06 pH

Enclosure

Tough, high impact ABS. Splash resistant one-piece lid.

Display

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

RS232 Serial Port Output (Optional)

300, 1200 and 9600 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

270 x 210 x 75 mm

Temperature

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

Input Impedance

>3 x 10¹² Ohms

Asymmetry Range

-1.00 to +1.00 pH

Slope Range

85.0 to 105.0%

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-CP Cond/TDS-pH/mV-Temp..126129

Part No

Kit Includes

Combination pH Sensor.....121207
 k=1-Cond-ATC-Temp Sensor.....122230
 Temperature/ATC Sensor.....121248
 pH6.88 Buffer, 200mL.....121306
 pH4.00 Buffer, 200mL.....121381
 2.76 mS/cm Cond Standard, 200mL.122306
 2.0 ppK TDS Standard, 200mL.....122307
 AC/DC Power Adaptor.....130037
 Manual.....130050

Optional Sensors

pH Sensor Upgrade: for difficult samples such as meat,dairy,slurries...
 pH, Intermediate Junc,
 1m.....121200/1

ORP Sensors:

ORP, Surface only, 1m.....121262
 ORP, Intermediate Junc, 1m.....121267
 ORP Calibration Solution.....121309

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

Part No

Options and Accessories**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

Same Price Interchange Option:

Choose between k=0.1, k=1 and k=10 Range Conductivity Sensors

k=10 Cond/ATC/Temp 1m, glass...122234
 k=0.1 Cond/ATC/Temp 1m, glass...122232

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 1.0

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Aqua-CP/A

WP-81

Aqua-DP

WP-91

90-FL Series

labCHEM-CP

smartCHEM-CP

smartCHEM-Lab

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