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labCHEM-C



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-C Benchtop Conductivity - TDS - Temperature Meter



[Full size image](#)

- ◆ *Simultaneous readout of Conductivity or TDS and 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**

The **labCHEM-C** is a Conductivity, TDS, and Temperature 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 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-C** 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-C** with complete confidence quickly and easily.

The **labCHEM-C** 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-C** absolutely simple.

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

Expand the capabilities of the **labCHEM-C** with the optional RS232 interface. All readings obtained with the **labCHEM-C** can be stored permanently on disk. Communication software for Windows is also available.

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

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

The **labCHEM-C** 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

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

Temperature

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

Temperature Compensation

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

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

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)

Cond : 0~2000 Counts = 0~2000 mV
 ie. 2.76 mS/cm = 276 mV

TDS : 0~1000 Counts = 0~1000 mV
 ie. 36.0 ppK = 360 mV

Temp : -10.0~120.0 °C = 0~2000 mV
 ie. 0.0 OC = 153.8 mV

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

Part No	Part No
labCHEM-C Cond/TDS/ATC/Temp.....122106	Options and Accessories
Kit Includes	Computer Interface:
k=1-Cond/TDS/ATC/Temp Sensor....122230	RS232 Serial Port & cable.....130039
Temperature Sensor.....121248	Serial to USB adaptor cable.....130087
2.76 mS/cm Cond Standard, 200mL.122306	WinTPS Software for Windows.....130086
2.0 ppK TDS Standard, 200mL.....122307	Computer Interface:
AC/DC Power Adaptor.....130037	Recorder Output & cable.....130028
Manual.....130050	RS232 + Recorder Output & cable.130049
Same Price Interchange Option:	Sensor Holder:
Choose between $k=0.1$, $k=1$ and $k=10$	Flexible Sensor Holder.....130088
Range Conductivity Sensors	
k=10 Cond/ATC/Temp 1m, glass...122234	
k=0.1 Cond/ATC/Temp 1m, glass...122232	



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 1.1

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labCHEM-C

Aqua-C

WP-84

90-C

labCHEM-C

smartCHEM-C

microCHEM-Cond

miniCHEM-Cond

proCHEM-C

microCHEM-Salinity

miniCHEM-Salinity

proCHEM-S

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