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## 90-C

请使用翻译作用于这页底部以翻译页对汉语。

TPS Australia - Quality hand-made instruments since 1968.

### 90-C Portable Conductivity, TDS, and Temperature Logger



(90-FL shown. 90-C is almost identical)

[Full Size Image](#)

- ◆ *Fully waterproof enclosure*
- ◆ *80 character display with user-friendly menu's and full-text messages.*
- ◆ *Wide range of measurements*
- ◆ *Can be used with up to 100 metres of cable.*
- ◆ *Automatic calibration*
- ◆ *Automatic datalogging and Computer interfacing standard (cable sold separately)*

The **90-C** is a highly functional, multi-range instrument for field measurements of Conductivity, TDS and

#### *Notepad Function*

A standard feature of the **90-C** is the Notepad function. Up to 9990 readings

Temperature. Full Automatic Temperature Compensation is provided. The **90-C** has special circuitry to enable it to be used with long cables for bore holes and deep water bodies. Cables up to 100 metres may be used.

### *User-friendly*

Conductivity/TDS and Temperature are shown simultaneously on the 80 character display. The user-friendly menu system guides the operator through all operations such as calibration, setup etc. Full text help and error messages are provided along the way.

### *Waterproof*

The **90-C** is designed for rugged field applications in wet environments. The case, keypad and connectors are rated to IP65. The unit has been used successfully in the Antarctic, which is as extreme as any climate can get.

### *Good Laboratory Practices*

To comply with GLP guidelines, the date, time and results of the last calibration are stored in memory, along with the unit's serial number. This data can be displayed or sent directly to the RS232 port. Warning of failed calibration is provided. All readings stored in memory are stamped with the date and time.

can be recorded for later review. These can be downloaded to a printer or computer via the RS232 port. For added functionality, the user is able to enter up to two additional items to be tagged on to the reading. Many operators use this function as a site identifier, depth or readings from other instruments.

### *Datalogging*

Automatic datalogging provides the capability to automatically record up to 9990 sets of readings at user-set intervals. The unit remains dormant between readings and only wakes up whenever a reading is due. Battery life is considerably improved with this facility.

### *RS232 Serial Port Interface*

All recorded data can be downloaded directly to a Printer or Computer with the standard RS232 port (cable sold separately). With the **WinTPS** communication software, many instrument functions can be controlled from the computer. This makes the units ideal for remote monitoring.

The 90 Series 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 full scale of selected range.

Accuracy : ±0.5% of full scale of selected range at 25°C.

Temperature Compensation : All readings automatically normalised to 25°C at -2.2%/OC.

Zero Calibration : Automatic in air.

Span Calibration : Automatic to user-defined standard.

**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 full scale of selected range.

Accuracy : ±0.5% of full scale of selected range at 25°C.

Temperature Compensation : All readings automatically normalised to 25°C at -2.2%/OC.

Zero Calibration : Automatic in air.

Span

**Good Laboratory Practices**

Date, time and value of last calibration for each parameter are stored. This information can be recalled or sent to the RS232 port at any time.

Warning of failed calibration is provided.

All readings stored in memory are stamped with the date and time.

**Datalogging****Memory Capacity**

9990 readings (8120 with extra data input active).

**Extra Data Input**

2 extra items of data can be input when using the Notepad function. Each item can be a maximum of 4 characters, including a decimal point. Extra Data items are labelled A and B.

**Automatic Logging**

The 90-C can be programmed to...

- Automatically log from 1 to 288 readings per day.
- Automatically log at up to 12 specific times of the day.
- Automatically log readings at a preset interval for a preset duration.

**RS232 Serial Port Output**

8 Bits, No Parity, 1 Stop Bit, XON/OFF Protocol.  
300, 9600 & 19200 baud available.

**Display**

2 line x 40 Character alphanumeric LCD shows all readings simultaneously.

**Keypad**

5 Function keys, Menu key, 14 data entry keys, OFF, ON.

**Dimensions**

230 x 140 x 100 mm

**Mass**

Meter only : Approx 1.5 kg  
Full Kit : Approx 5.0 kg

**Environment**

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

90-C

Calibration : Automatic to user-defined standard.

**Temperature**

Range : -10.0 to 110.0 °C  
Resolution : 0.1 °C  
Accuracy : +/-0.2 °C  
Calibration : Automatic

**Power**

7.2V Rechargeable NiCad Battery  
Any 12VDC supply will recharge the battery.

**Ordering Information**

**90C**

**Part No**

**5 metre bundle 122145/5:**

90-C including sensor.....122145/5

**5 metre Option Includes**

k=1 Conductivity/TDS/Temperature Sensor, 5m....122196  
2.76mS/cm Conductivity Standard, 1 Litre.....122305  
(1 Litre Salinity or TDS standard to suit k=10, k=1, or k=0.1 sensor)  
Battery Charger.....130009  
Manual.....130050

**Same Price Interchange Option:**

**Choose between k=0.1, k=1 and k=10 Conductivity Sensor**

k=10 Conductivity/TDS/Temperature Sensor, 5m...122218  
K=0.1 Conductivity/TDS/Temperature Sensor, 5m..122197

**Options and Accessories**

**Cable Extension:**

Extra cable, per metre.....130040

**Computer Interface:**

RS232 serial port cable to connect to computer.130015  
Serial to USB adaptor cable (used with 130015).130087  
WinTPS Software for Windows.....130086

**Power options:**

12V Solar charging panel.....130012  
12V Car cigarette lighter lead.....130013  
Clip lead for external 12V battery.....130024

**Carry case:**

Waterproof carry case.....130058



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[Download the full colour 90 Series Brochure \(1.45 MB PDF\).](#)



[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.



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*Version 6.2*

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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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