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## WP-87T



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.

### WP-87T Waterproof Dual Channel Thermocouple Thermometer



[Full Size Image](#)

- ◆ **RS232 Serial Port Interface**
- ◆ **Multiple Power Options**
- ◆ **Australian Made**

- ◆ **User-selectable for 1 or 2 channels**
- ◆ **Suitable for all Type K sensors with standard mini-plug.**
- ◆ **Rugged and Waterproof**
- ◆ **Differential Readout**
- ◆ **Maximum / Minimum Readout**
- ◆ **Readout in °C, °F or °Kelvin.**
- ◆ **User-friendly**
- ◆ **Calendar Clock**
- ◆ **Good Laboratory Practices**

 **2400 Reading Notepad**

 **Automatic Datalogging**

The WP series enclosure is fully waterproof to IP67 rating. The connectors are rated to IP65. The case, keypad and connectors are designed for maximum durability in the harshest conditions. The WP Series is equally at home in laboratory, field or industrial environments.

The 32 character alphanumeric display features a user-friendly menu system. This guides the user through every step of operation. Full text prompting and error messages are provided. Calibration and set-up are a breeze with the WP Series.

The Calendar Clock can be displayed continuously along with the data. The date and time are recorded with every reading, when using the Notepad and AutoLog functions.

To comply with Good Laboratory Practices (GLP) standards, the WP Series store the date, time and results of the last calibration. This information can be recalled when required. All readings stored in memory are stamped with the date and time.

To reduce errors when recording readings, the WP Series has a 2400 reading Notepad. At the touch of a button, readings can be recorded into memory, along with the date and time. This is especially useful when taking readings in wet environments.

Program the AutoLog function to automatically log readings into memory. Simply set the logging interval from 1 minute to 24 hours, start logging and walk away. The WP Series can log up to 2400 readings, along with the date and time.

The WP Series has RS232 serial port interface. All readings stored in memory and GLP information can be downloaded to a PC or printer. The RS232 serial port also allows the AutoLog function to log directly to a PC or printer. WinTPS Windows software allows the WP Series to communicate with a PC for data download.

The WP Series is supplied with a rechargeable NiMH battery and charger as standard. Chargers for all countries are available. For extended field trips a solar panel, or a charger lead for a car cigarette lighter socket are also available.

The WP 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. Compare the list of features with the competition. The WP Series sets a new standard for handheld instruments.

# Specifications

## Ranges

-99.9 to 200.0 °C

200 to 1200 °C

-99.9 to 390.0 °F

390 to 2000 °F

173.0 to 473.0 °Kelvin

473 to 1473 °Kelvin

Range is automatically selected, depending on reading.

## Resolution

0.1 and 1 °C

0.1 and 1 °F

0.1 and 1 °Kelvin

## Instrument Accuracy

The WP-87T is accurate to the resolutions detailed above.

## Sensor Accuracy

Up to 200 °C.....+/-0.2 °C

+/-0.3 °F

+/-0.2 °Kelvin

Above 200 °C.....+/-1% of reading

## Maximum / Minimum Mode

Stores maximum and minimum values for all enabled channels.

## Data Hold Function

Freezes current reading(s) on display.

## Difference Mode

Displays difference between channels A and B when 2 channel mode is selected.

## Response Time

90% of final value within 3 seconds using the standard 3mm diameter sensor.

## Calibration

Automatic 2 point calibration. Simultaneous calibration of both channels provided.

## Enclosure

Tough, anti-static Luran-S plastic case, waterproof to IP67. Connectors waterproof to IP65. The instrument will float if dropped into water.

## Display

32 Character alphanumeric LCD with user-friendly menu system and full-text messages.

## Memory

2400 readings, including date and time.

## Automatic Logging

User-set for one reading every 1 to 90 seconds, 1 to 90 minutes or 1 to 24 hours.

## RS232 Serial Port Output

300, 1200 and 9600 Baud.

8 Bits, No Parity, 1 Stop Bit, XON/XOFF.

## Clock

24 Hour Calendar Clock

## Battery Saver Function

On : Automatically switches off after 5 minutes of no use.

Off : Unit remains on for continuous use.

## Good Laboratory Practices

Date, time and results of last successful calibration are stored, and can be recalled when required. GLP information can be printed or downloaded to PC when the optional RS232 Interface is fitted. Warning of failed calibration is provided.

## Power

6V NiMH Rechargeable battery pack for approx 75 hours operation. Battery charger for country of choice supplied. Battery can be charged from any 12V DC source.

## Dimensions

187 x 110 x 51 mm

## Mass

Instrument only : Approx 440g

Full Kit : Approx 1.7kg

## Environment

Temperature : 0 to 45 °C

Humidity : 0 to 95% R.H.

## Ordering Information

	Part No
WP-87T Temperature 1m.....	124120
<b>Kit Includes</b>	
3mm Dia Temperature Sensor.....	124204
Battery Charger.....	130037
Manual.....	130050
<b>Optional Sensors</b>	
Extra Temp Sensor.....	124204
Air/Gas Temp Sensor.....	124205
Flat Surface Temp Sensor.....	124203
Custom Thermocouple Sensor.....	124206
(must specify requirements)	
<b>Options and Accessories</b>	
<b>Cable Extension:</b>	
Extra cable, per metre.....	130040
<b>Computer Interface:</b>	
Serial cable for computer.....	130041
Serial to USB adaptor cable.....	130087
<b>WinTPS</b> Software for Windows.....	130086
<b>Power options:</b>	
12V Solar Panel.....	130012
12V Car Cigarette lighter lead..	130046
12V Clip lead, separate battery.	130052
<b>Carry case:</b>	
Aluminium Carry Case.....	130059



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



[Download the full colour WP Series Brochure \(832KB PDF\).](#)



[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 2.0*

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MC-87

WP-87

WP-87T

microCHEM-Temp

miniCHEM-Temp

proCHEM-T

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A.B.N. 30 009 773 371  
Last modified: January 23, 2009